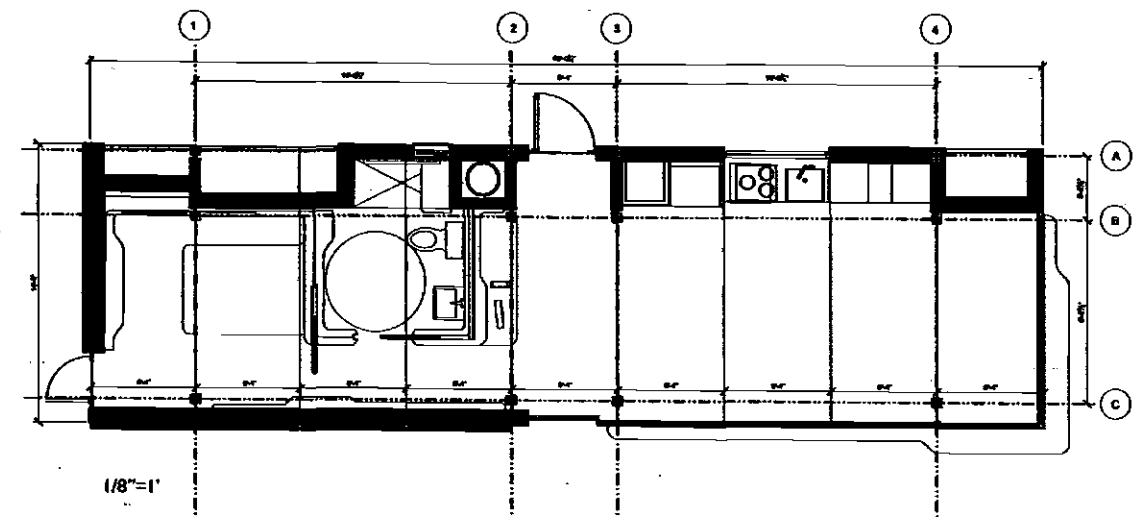
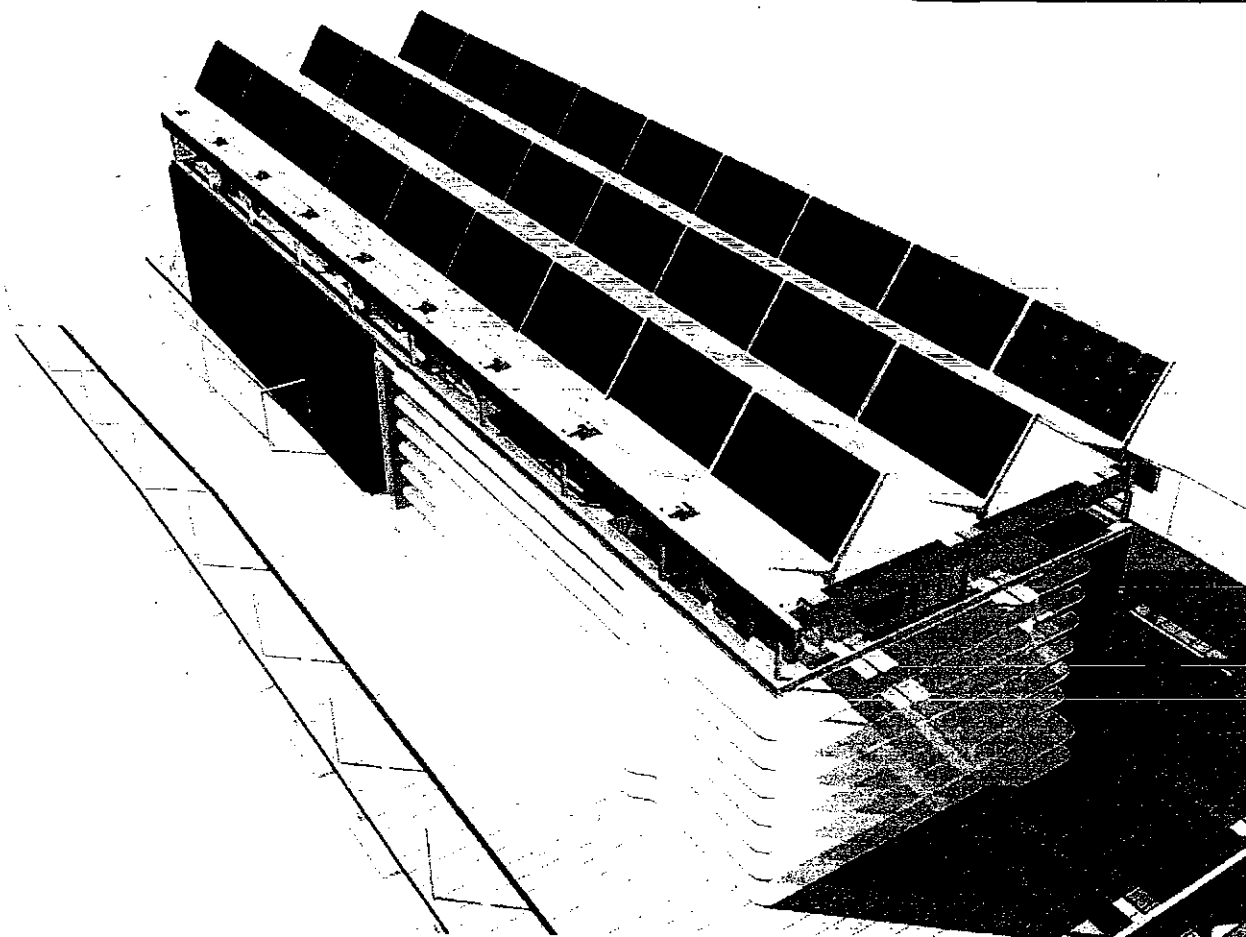


GEORGIA TECH SOLAR DECATHLON 07

CONSTRUCTION DRAWINGS

PROJECT ICARUS: Sustaining Life With Light
3.6.2007



Georgia Tech									
ITU	NYL	PSU		COLO	UNB	UNED	UT	UPR	SCU
119	117	115		111	109	107	105	103	101
DECATHLETE WAY									
120	118	116	114	112	110	108	106	104	102
NYTT	UNUC	MIT	CRU	TUD	KSU	CORNELL	CINCY	TAMU	UPM

The Georgia Tech Solar Decathlon Team will design and construct a truly innovative house which harnesses and celebrates the sun's power. Integrating both architectural and engineering principles, it will seek to critically advance inventions in solar technology. Asking the following question: "Is the attainment of solar efficiency and comfort possible in the context of an ever increasing desire for spatial and architectural transparency?" As in the Greek tale of Daedalus' son Icarus who embarked on a flight to the sun, so too the modern fascination with building lighter and more transparent buildings is supposedly at odds with the need for energy conservation and ecological building. And yet, at no other time in the history of construction have advances in materials technology and systems design rendered Icarus' vision more realizable. It is to the exploration of this paradox that Project Icarus is dedicated.

Georgia Institute of Technology
College of Architecture
College of Engineering
College of Management
College of Sciences

The Solar Decathlon is a project of the U.S. Department of Energy (DOE) in partnership with DOE's National Renewable Energy Laboratory.

TEAM SPONSORS:



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consultants:

prepared by:
Alstan Jakubiec

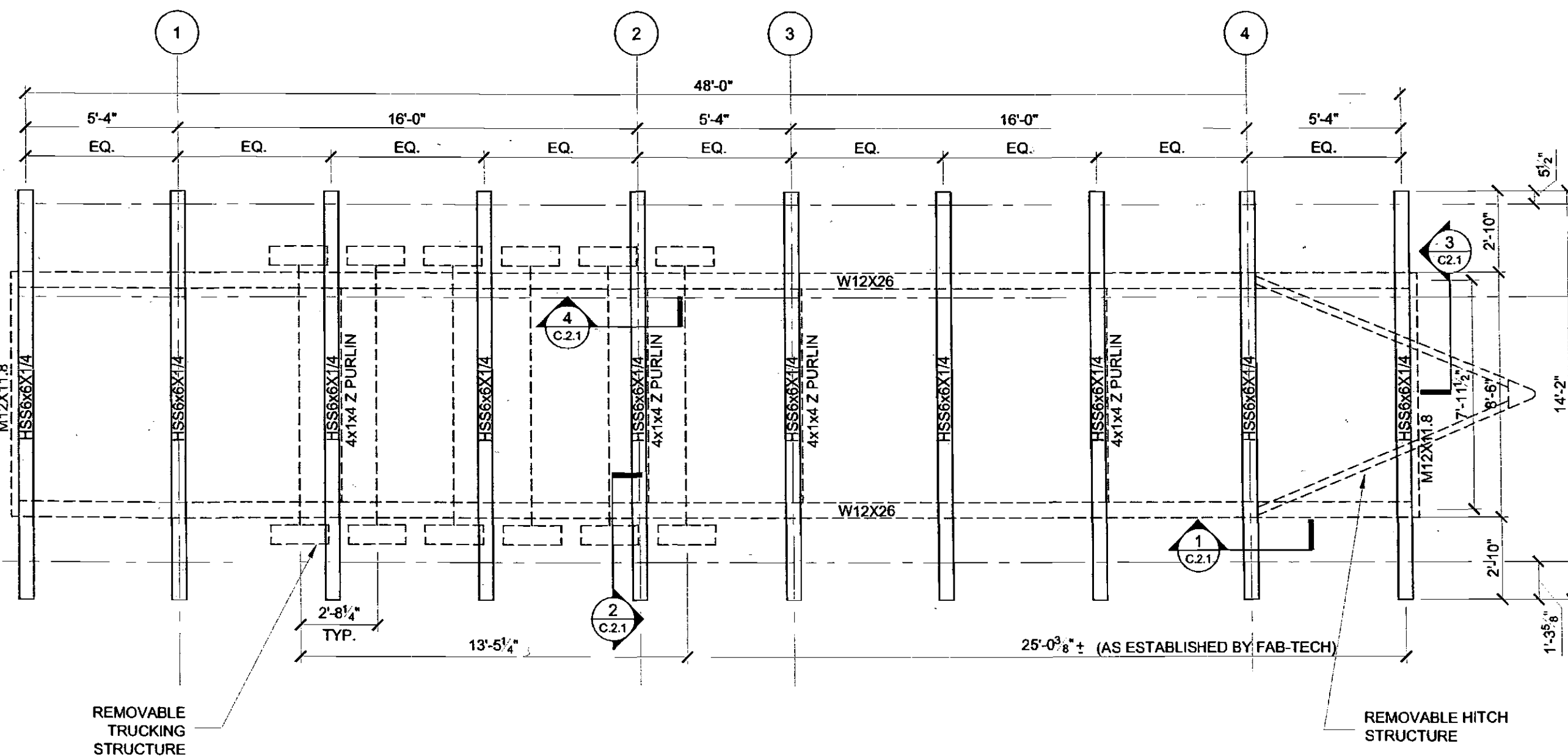
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G.O.O

DRAWING LIST



NOTES

1. FAB-TECH TO VERIFY THICKNESS OF ALL CHASSIS STRUCTURAL TUBING, EITHER 1/4" OR 3/8".

1 CHASSIS PLAN
C.1.0



date

description

revision

consultants:

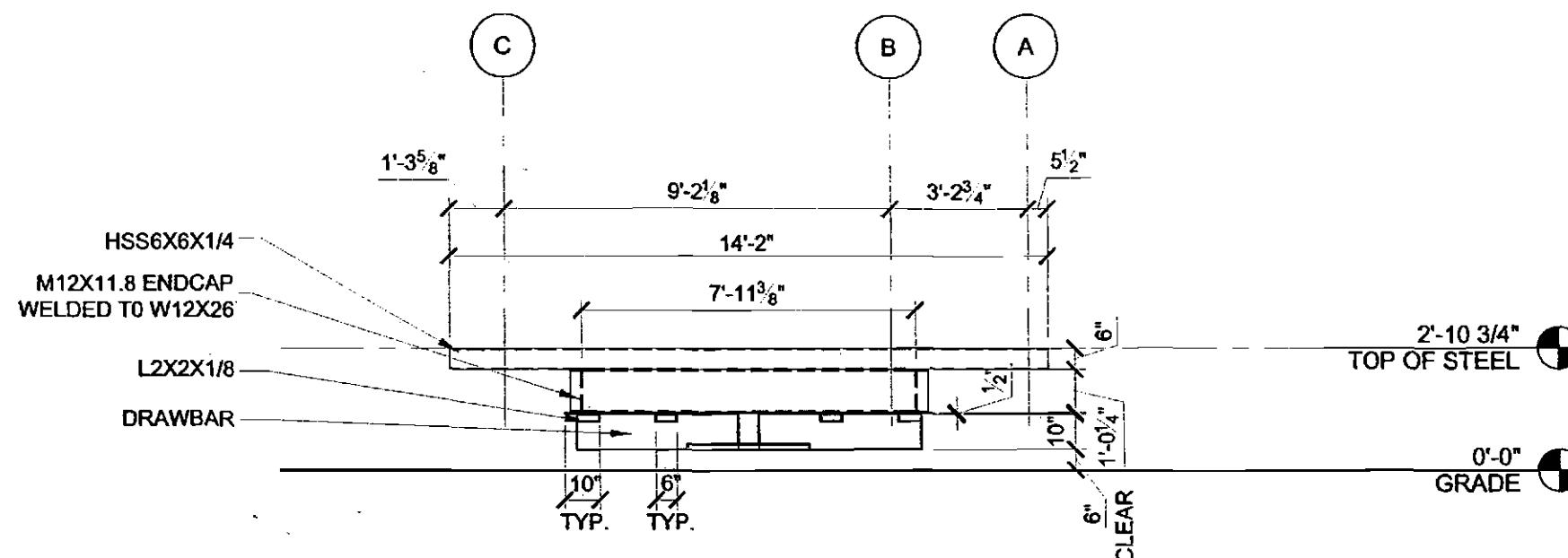
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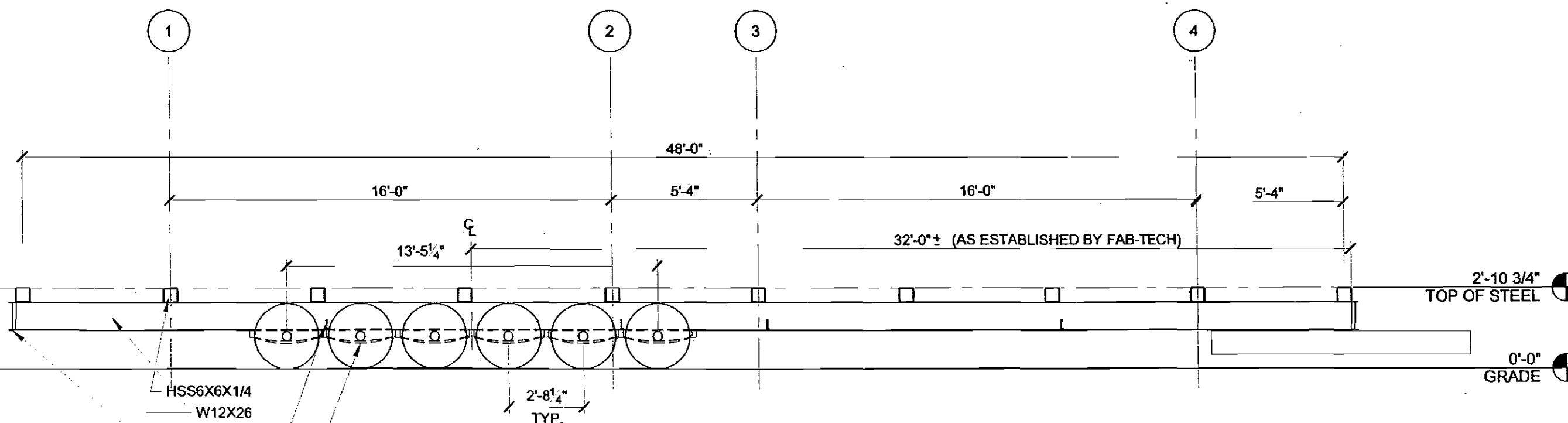
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C.1.0

CHASSIS PLAN



2 CHASSIS ELEVATION-EAST
C.2.0



1 CHASSIS ELEVATION-NORTH
C.2.0



date	
description	
revision	

consultants:

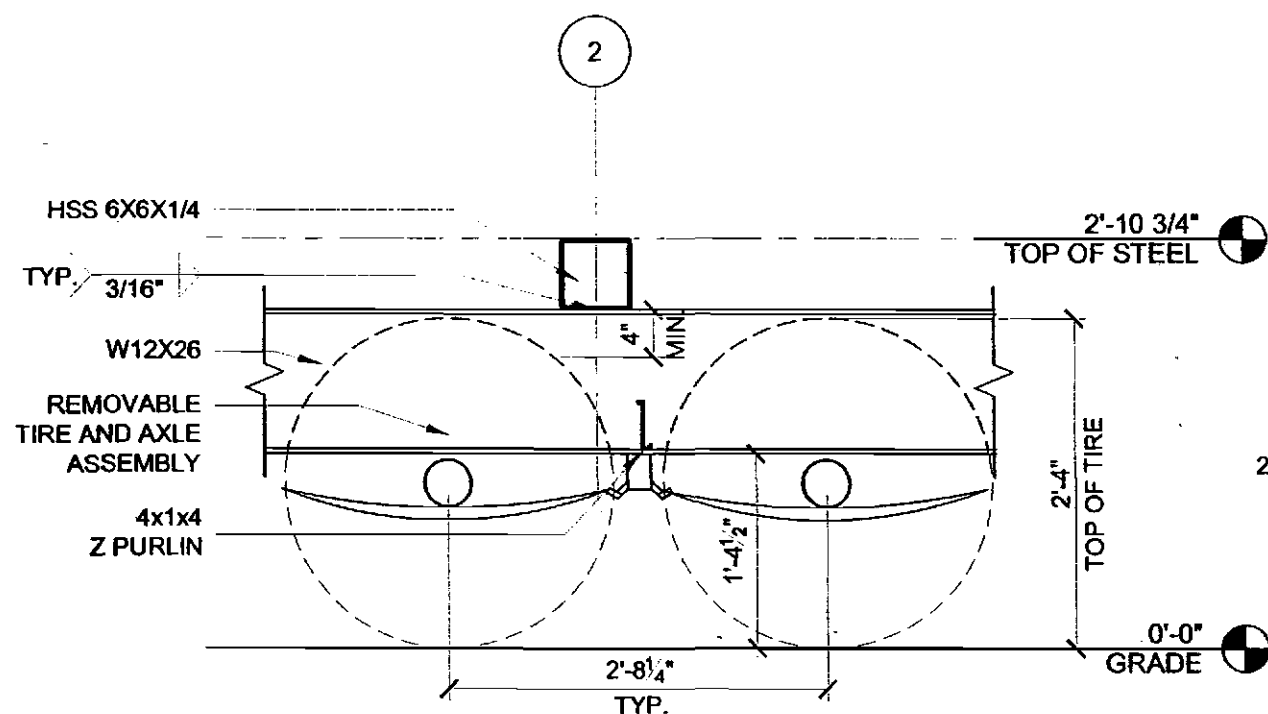
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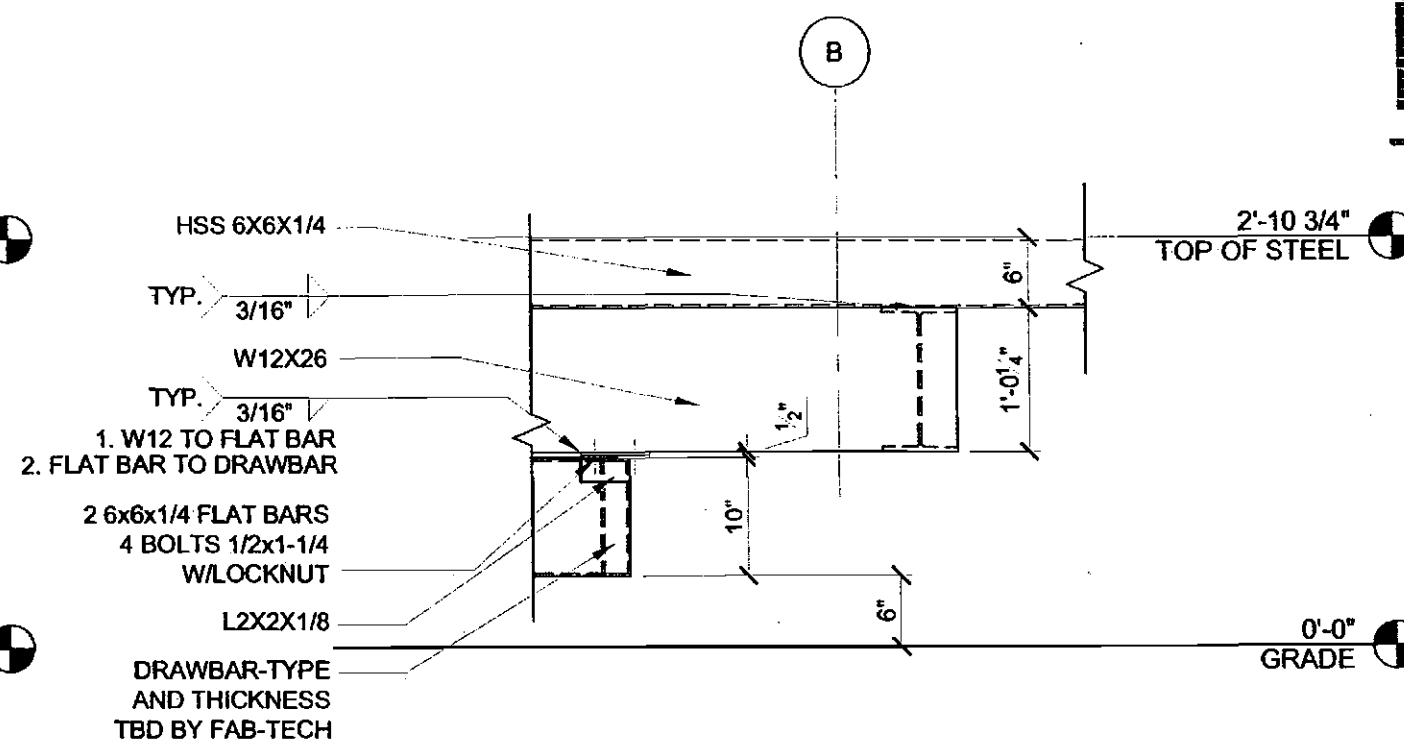
C.2.0

CHASSIS ELEVATIONS



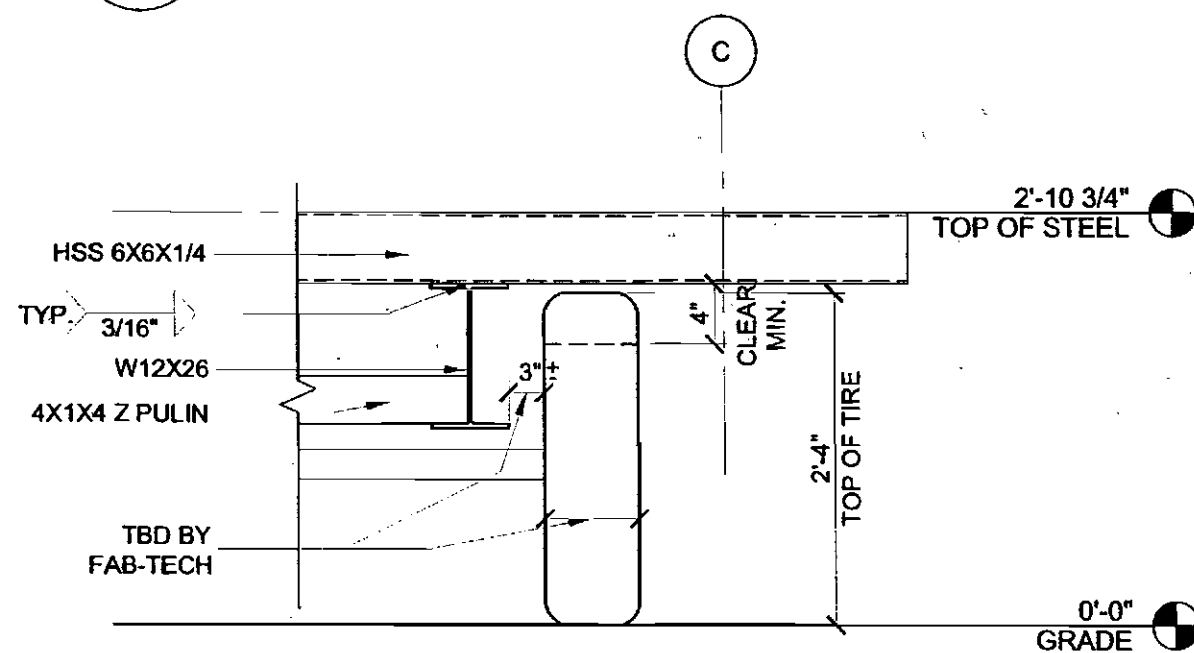
4 CHASSIS ELEVATION

C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH



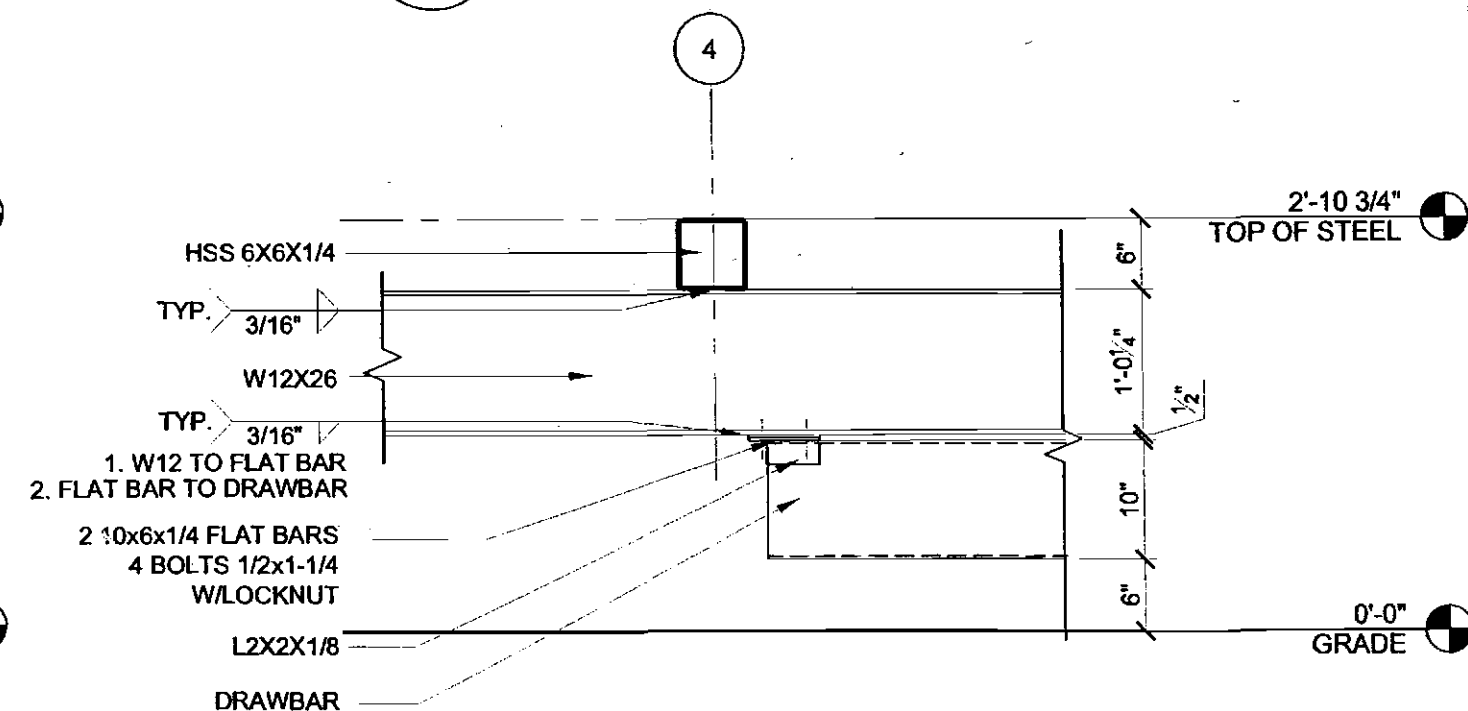
3 CHASSIS ELEVATION

C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH



2 CHASSIS DETAIL

C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH



1 CHASSIS DETAIL

C.2.1 *ALL WELDS TO BE VERIFIED BY FAB-TECH

date	
description	
revision	

consultants:



prepared by:
C.VAN KLEY
date drawn:
3.06.07



scale: 3/4"=1'-0"

C.2.1

CHASSIS DETAILS

COVERED
WATER TANKS NOT
PARTICIPATING IN
SOLAR ARRAY

LIVING WALL
PURIFICATION
SYSTEM
(SEE L.5.3)

HERB GARDEN
(SEE L.5.1)

BATTERY
STORAGE
(SEE L.4.8)

RECLAIMED
DECKING

HANDRAIL

WATER
GARDEN

RAMP

GRAVEL

SOLAR
ENVELOPE

PROPERTY
BOUNDARY

REED BED PURIFICATION
SYSTEM SEE L.5.1

ELECTRIC CAR/
PORT AREA

PASSIVE DRYING
CLOTHESLINE

GEORGIA TECH SOLAR DECATHLON 07

revision	description

Comments:



prepared by:

Toni Clift

Barbara Hearn

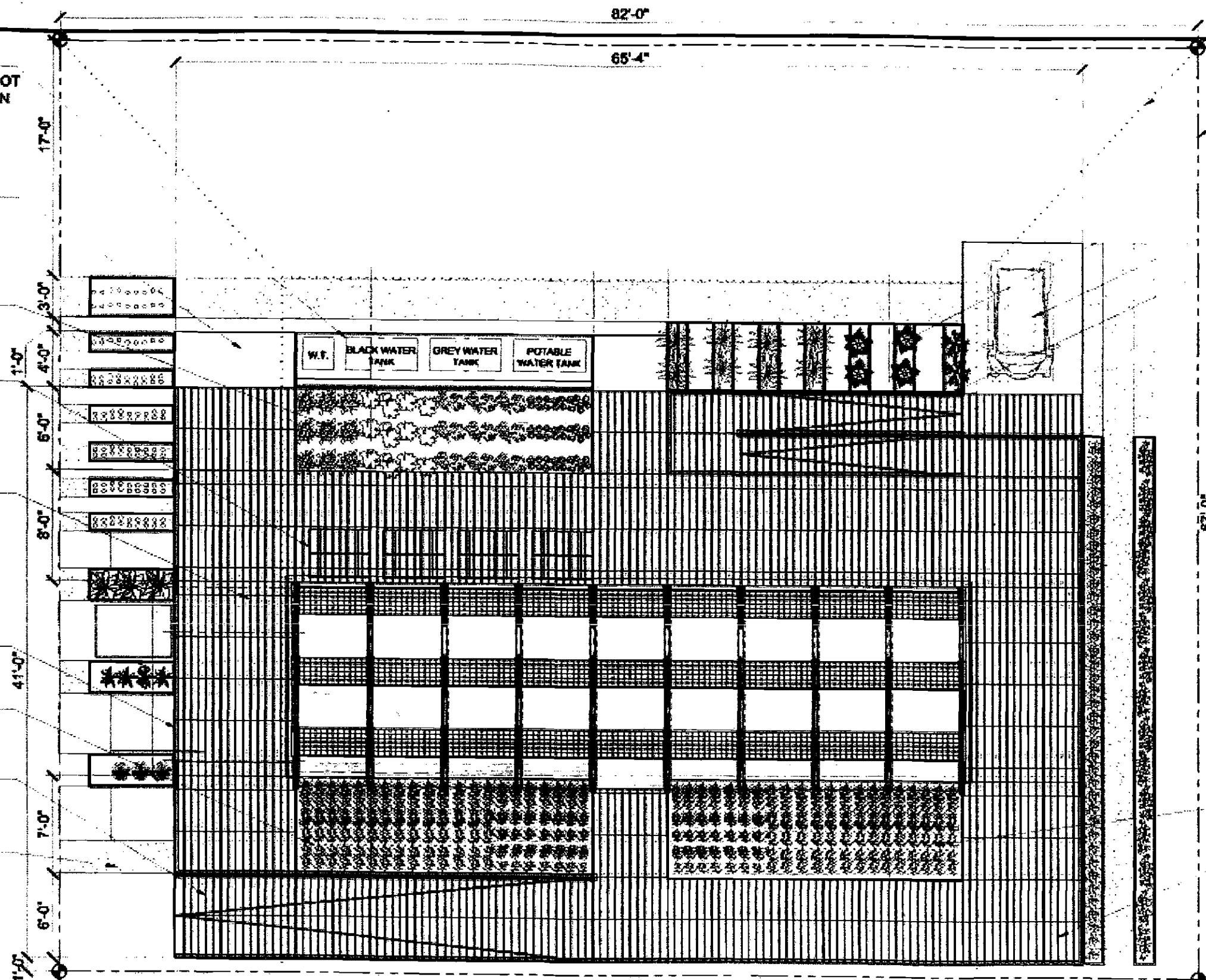
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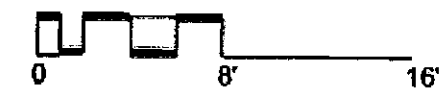
SITE PLAN

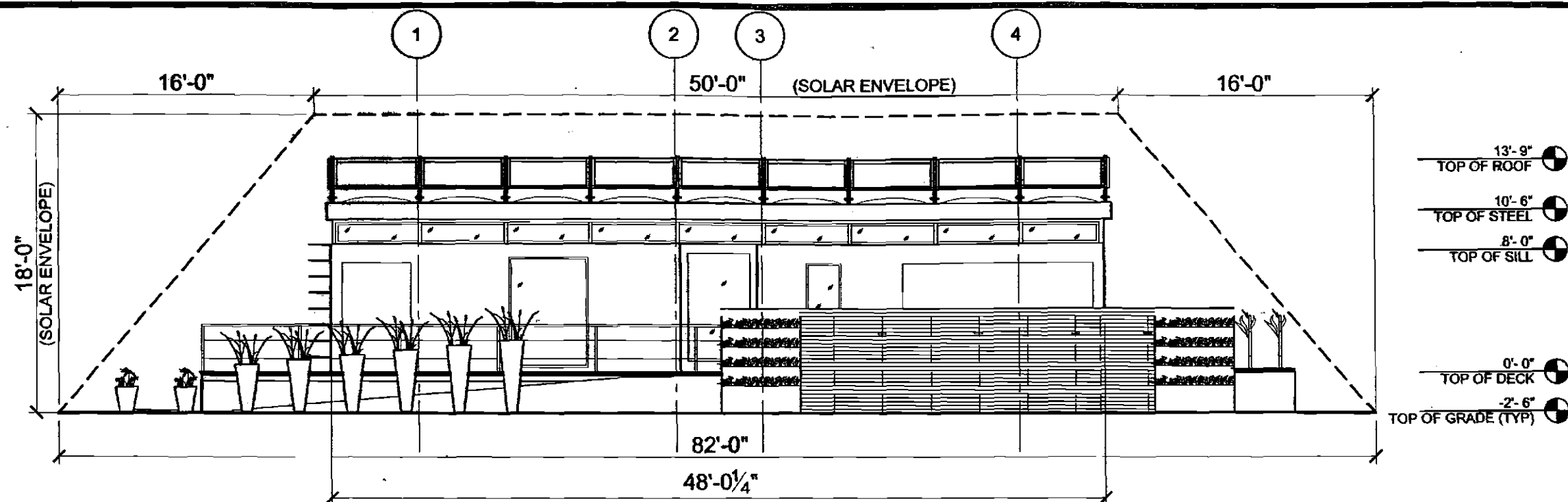
L.1.0



1
L.1.0

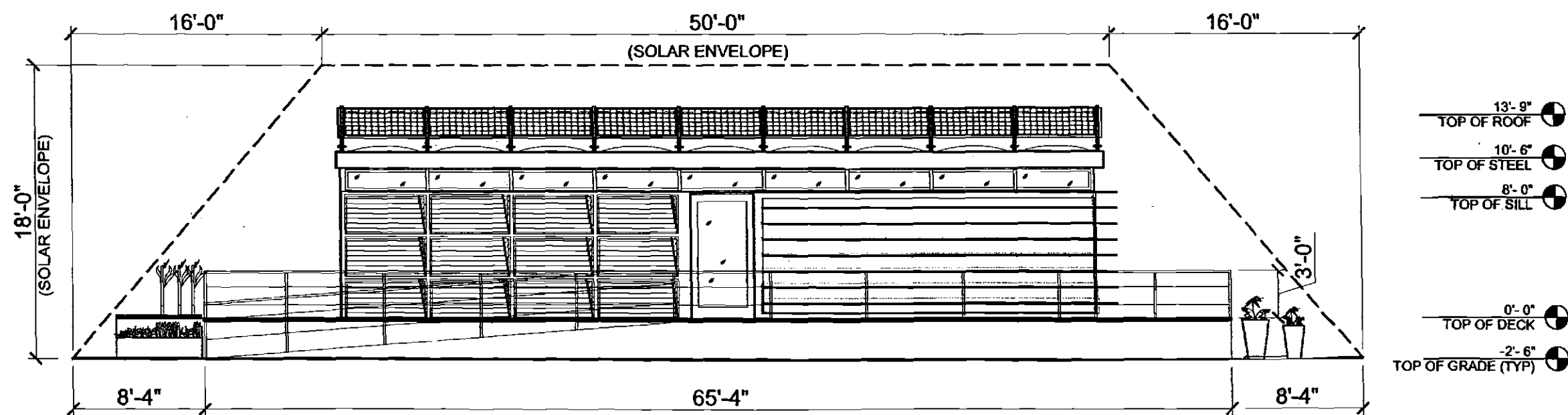
SITE PLAN





2 SITE ELEVATION - NORTH

L.2.0



1 SITE ELEVATION - SOUTH

L.2.0



date	
description	
revision	

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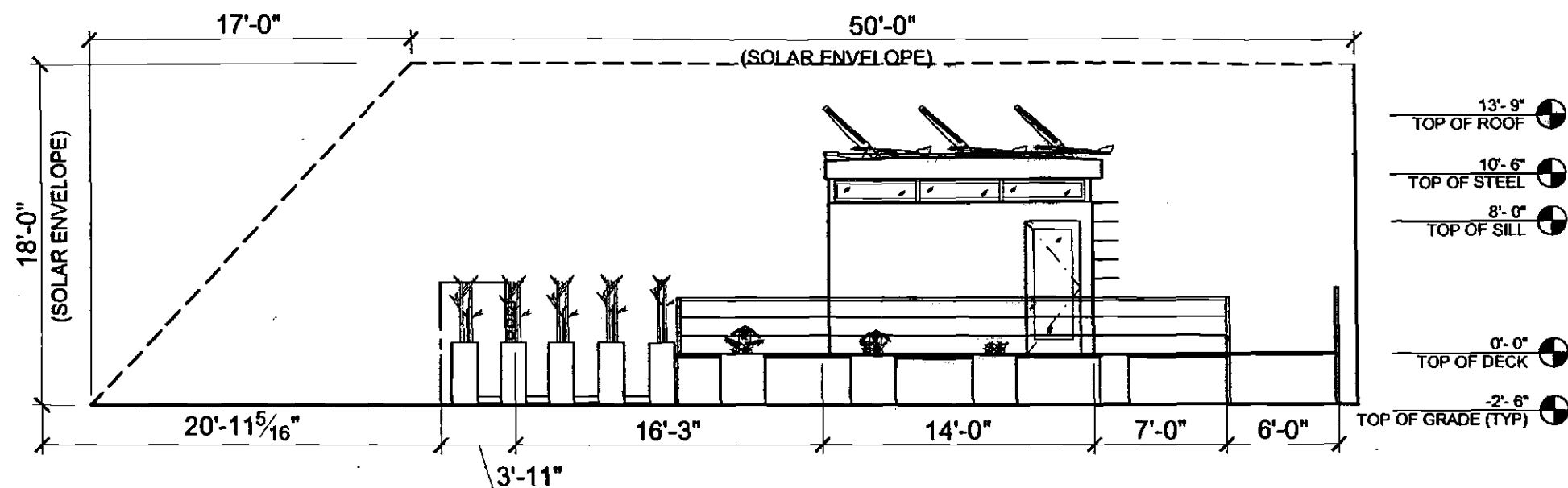


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Amanda Cook
C.VAN KLEY
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3.06.07

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L.2.0

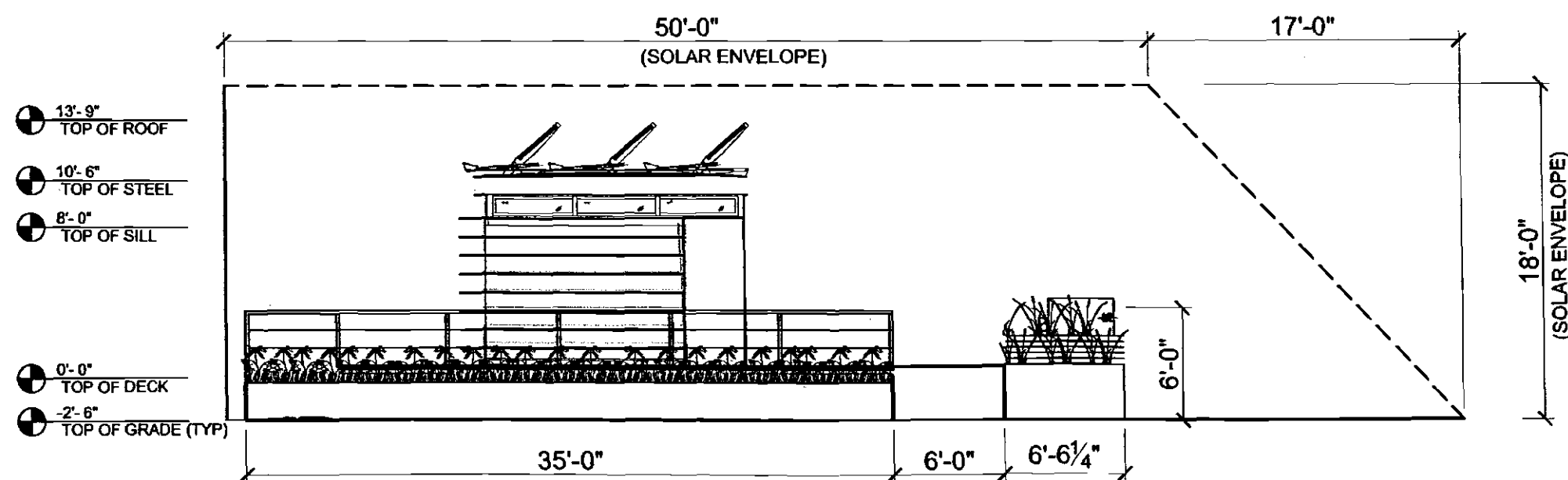
SITE ELEVATIONS



2

SITE ELEVATION- WEST

L.2.1



1

SITE ELEVATION- EAST

L.2.1



date	
description	
revision	

consultants:



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C. VAN KLEY
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3.06.07

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L.2.1

SITE ELEVATIONS

revision	description	date

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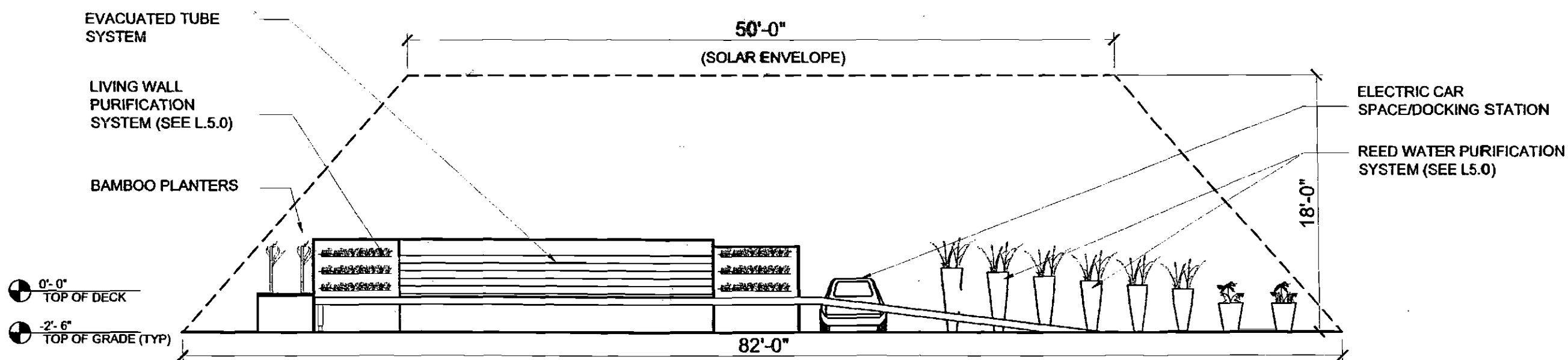


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 3.06.07

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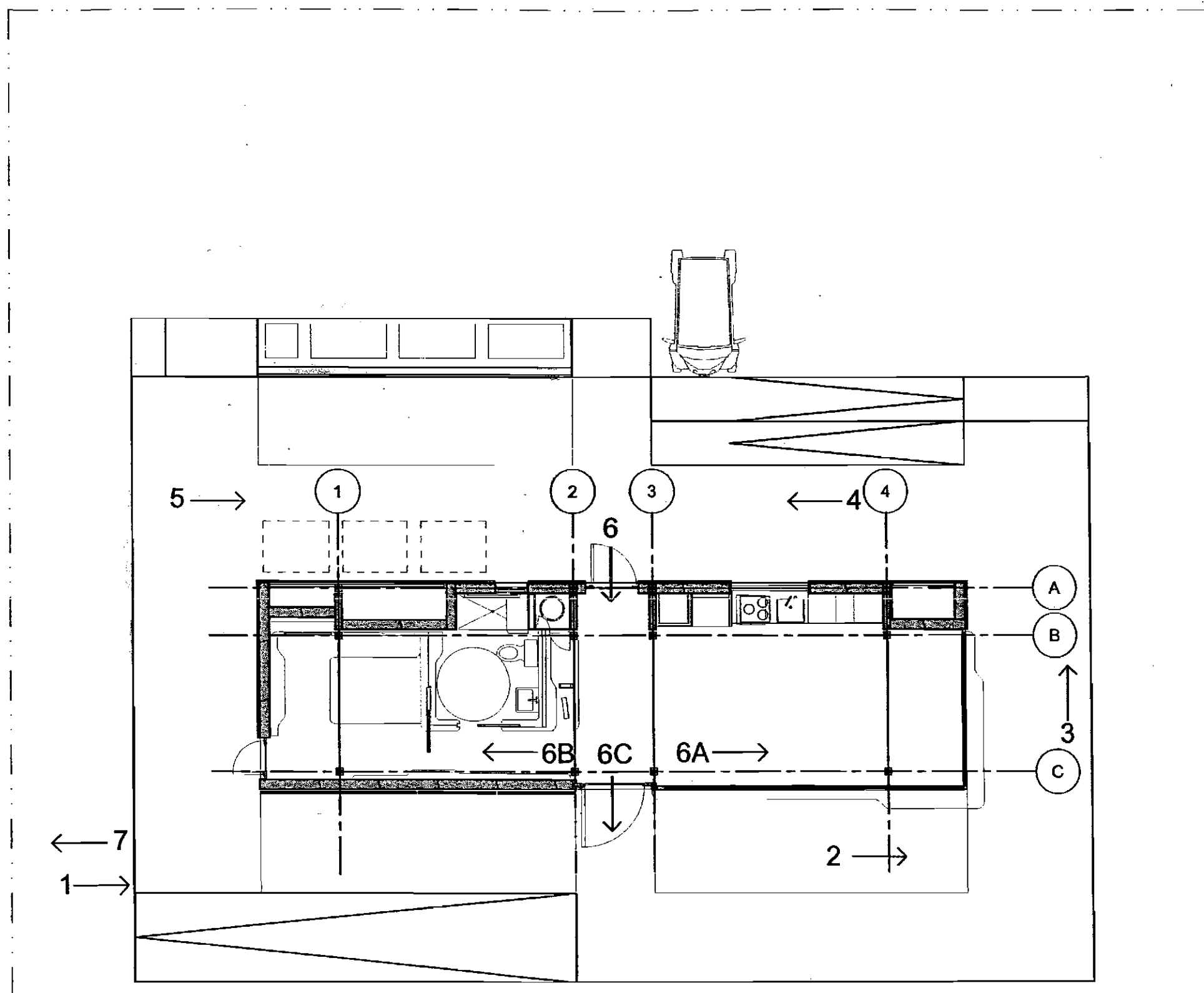
L.2.2

SITE SECTION



1 SITE SECTION - NORTH
 L.2.2





date	
revision	
description	

consultants:



prepared by:
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C.VAN KLEY
date drawn:
12.01.06
3.06.07



scale: 1/8" = 1' 0"

L.3.0

TOUR ROUTE



1 TOUR ROUTE (40 minute tour)
L.3.0

Tour Route

1. Introduction

- Team Structure
- Timeline
- Team Goals
- Arch/Engineering
- Marketing Segment
 - i. Adaptable living
 - ii. Modern

2. Roof Structure

- Skin – Structure & ETIRE
- PV
 - i. Technology
 - ii. Operability

3. Walls

- Exterior Louvers & Translucent Walls
 - i. Construction techniques
 - ii. Shading, usefulness
- BIPV & SIPS
 - i. Construction techniques
 - ii. Hot Water Devices
 - iii. Energy Produced & Efficiency
- Regroup/Summary

4. Batteries, Car, Inverter

5. Water System, Mechanical, Garden

- Evacuated Tubes
- Grey Water System
- Heating and Cooling Devices

6. House Tour

- Opening
 - i. Structure
 - ii. Roof
 - iii. House Dichotomy
- Living Area
 - i. Technology
 - ii. Accessibility
 - iii. Lighting
 - iv. Other Design Drivers (efficiency atmosphere)
- Bath/Bedroom
 - i. AWPL (Advanced Wood Products Lab Fabrication)
 - ii. Technologies
 - iii. Accessibility
 - iv. Lighting
 - v. Other Design Drivers

7. Farewell

NOTE

LONGER AND SHORTER TOURS
WILL FOLLOW THE SAME PATH,
ALBEIT BRIEFER OR MORE
EXTENSIVE IN CONTENT.

1

L.3.1

TOUR ROUTE (40 Minute Tour)

date	
description	
revision	

consultants:



prepared by:

Amanda Cook
C.VAN KLEY

date drawn:

12.01.06
3.06.07

TOUR ROUTE DETAILS

L.3.1

COVERED
WATER TANKS NOT
PARTICIPATING IN
SOLAR ARRAY

LIVING WALL
PURIFICATION
SYSTEM
(SEE L.5.0)

HERB GARDEN
(SEE L.5.0)

BATTERY
STORAGE
(SEE L.4.6)

RECLAIMED
DECKING

WATER
GARDEN

HAND RAIL

RAMP

SOLAR ENVELOP

PARQUET TILE
1 x 6 DECKING

WATER GARDEN

DECKING LAYOUT

W.T. BLACK WATER TANK GREY WATER TANK POTABLE WATER TANK

DECKING PLAN - LANDSCAPE

date	
description	
revision	

consultants:

prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale:

L.4.0

1
L.4.0

1
L.4.3

1
L.4.2

1
4.1

1
L.4.4

1
L.4.10

1
L.4.5

1
L.4.7

1
L.4.6

1
L.4.8

1
L.4.9

A

B

C

1

2

3

4

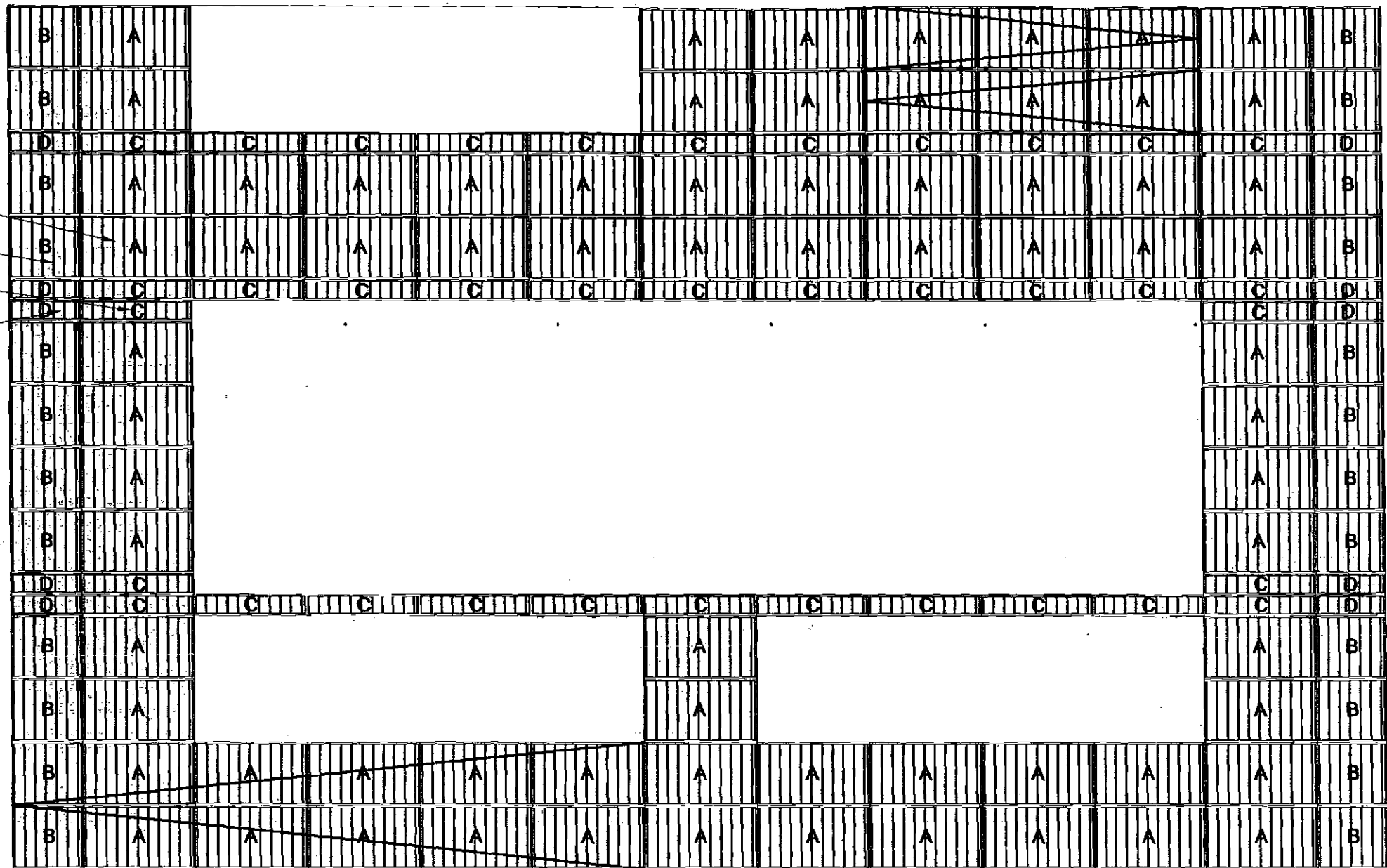
82'-0"

65'-4"

14'-0"

41'-0"

TILE A
TILE B
TILE C
TILE D



TILE NAME	SIZE	QTY
TILE A	3'-0" x 5'-4"	72
TILE B	3'-0" x 3'-4"	24
TILE C	1'-0" x 5'-4"	37
TILE D	1'-0" x 3'-4"	10

date

description

revision

consultants:

prepared by:
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3.06.07

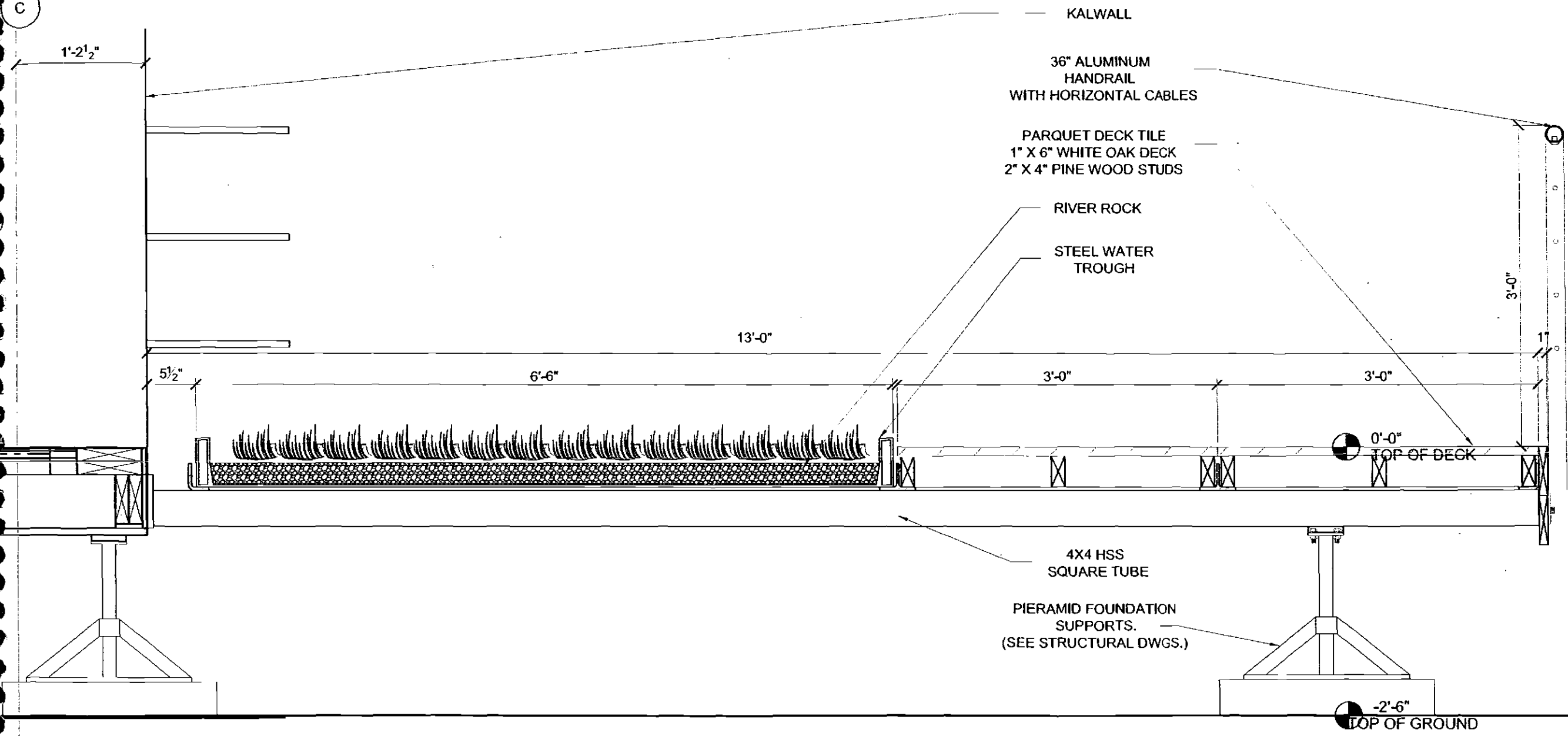


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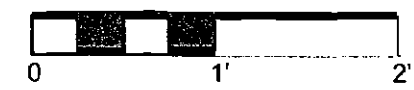
DECKING SCHEDULE - LANDSCAPE

L.4.0.A

C

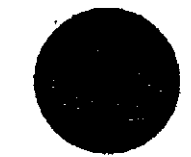


1 WATER GARDEN SECTION
L.4.1

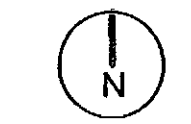


date	
description	
revision	

consultants:



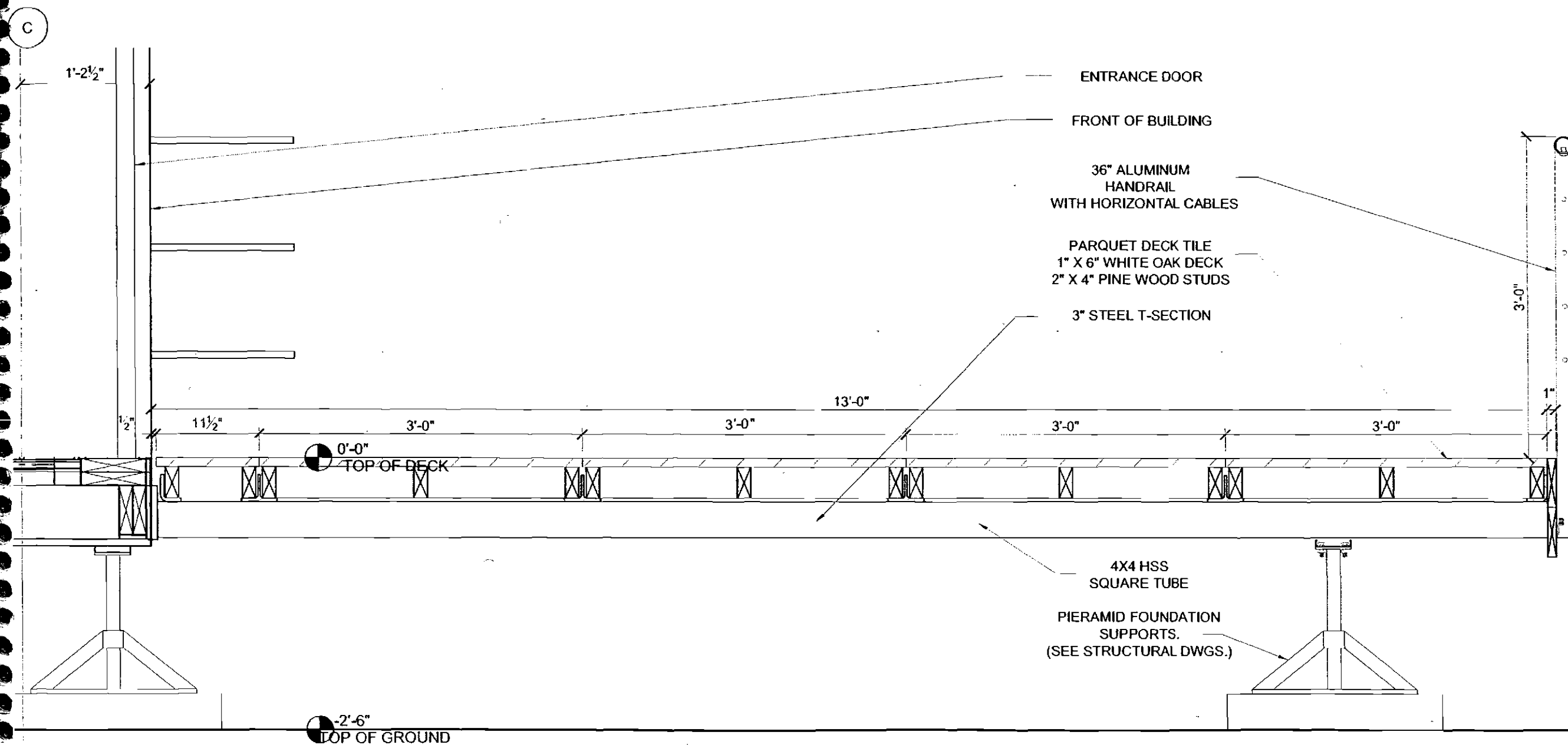
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Barbara Hearon
date drawn:
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scale: 1" = 1' 0"

L.4.1

DECKING SECTIONS - SOUTH FACE



date	
description	
revision	

consultants:

prepared by:
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 Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



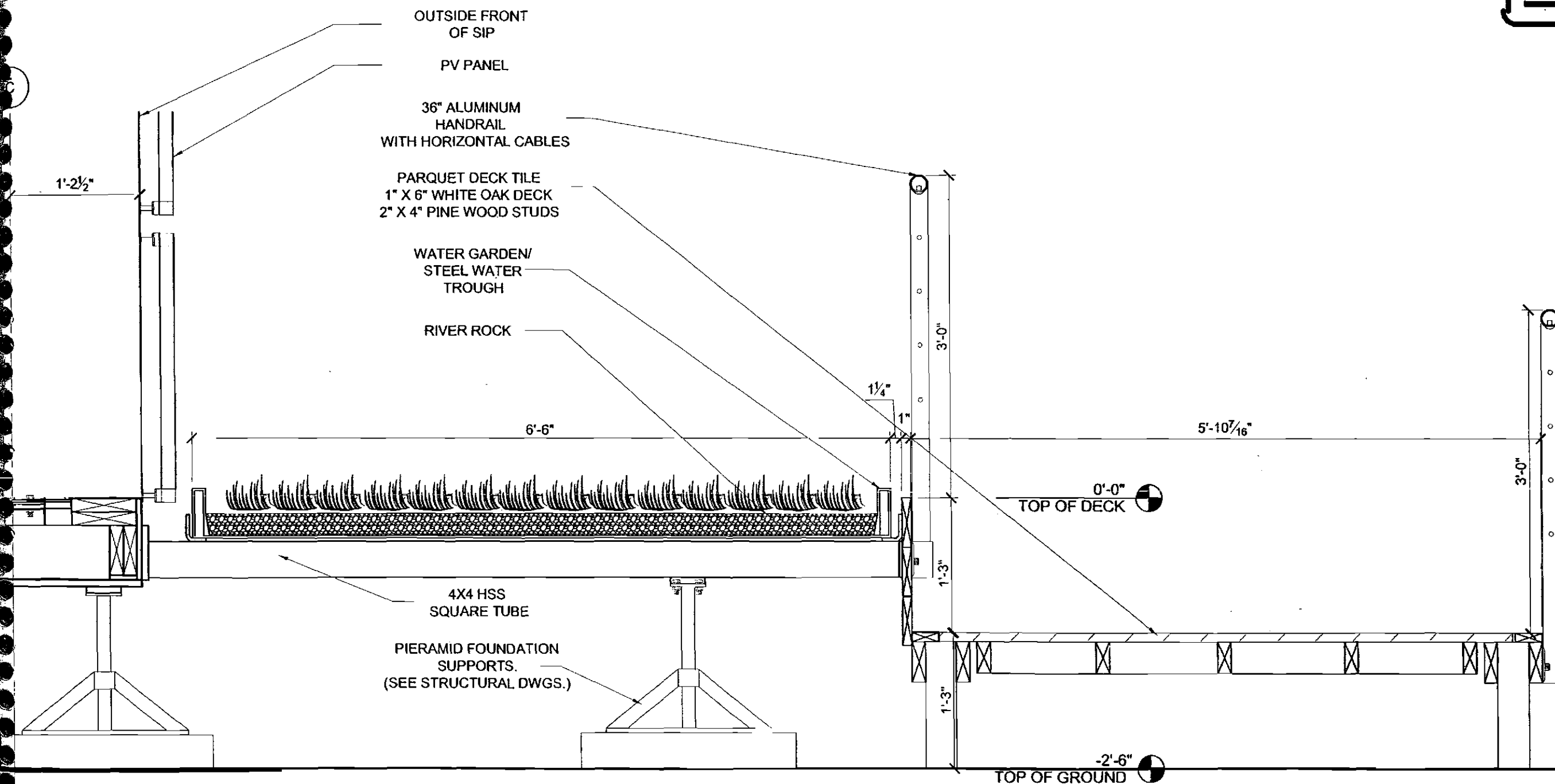
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L.4.2

DECKING SECTIONS - SOUTH FACE

1 SOUTH DECK SECTION
 L.4.2



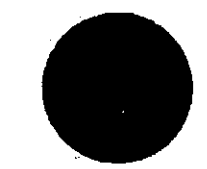


1 SOUTH RAMP SECTION
L.4.3



date	description	revision

consultants:



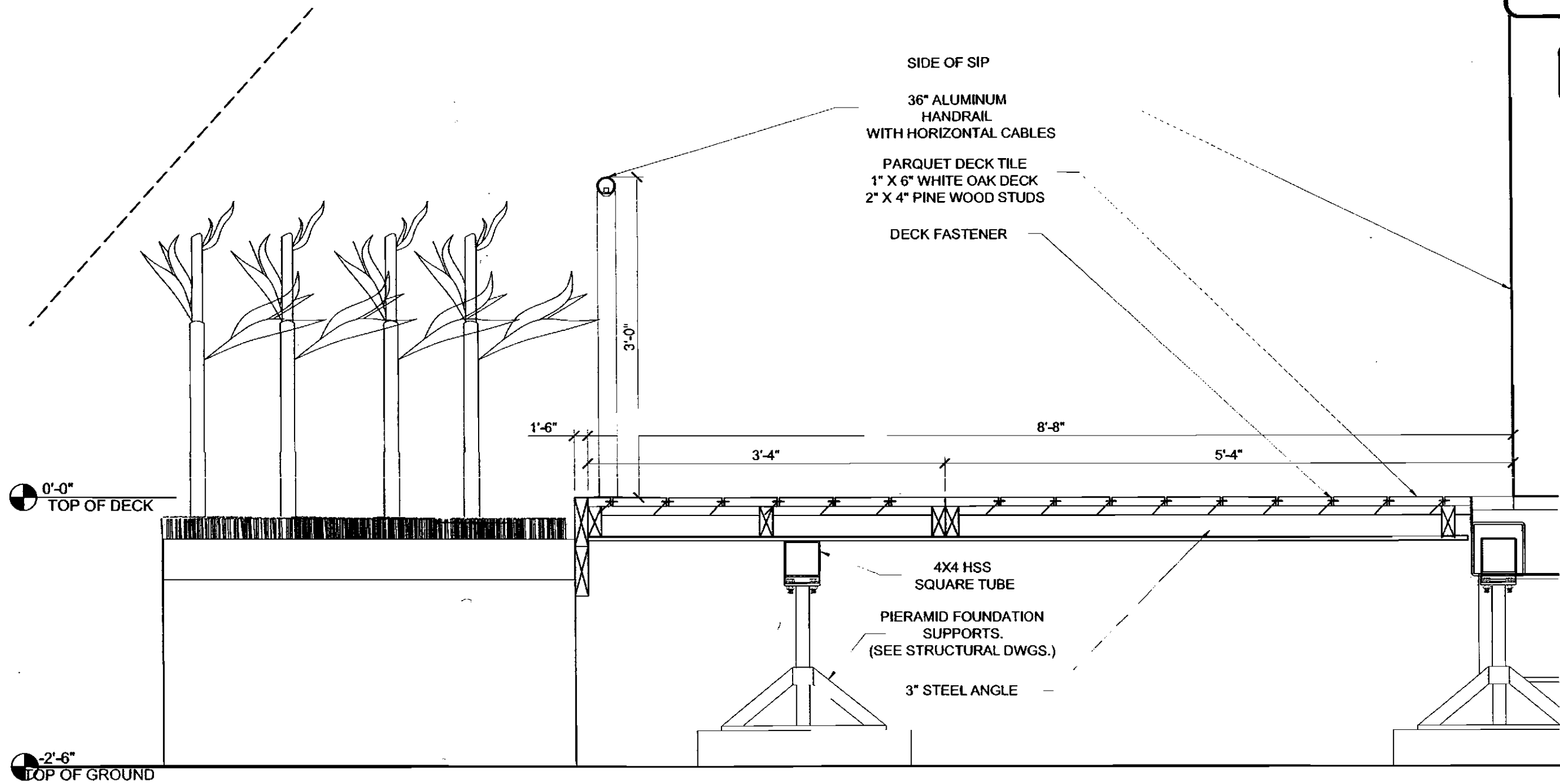
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Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale: 1" : 1' 0"

L.4.3

DECKING SECTIONS - SOUTH FACE



date	
description	
revision	

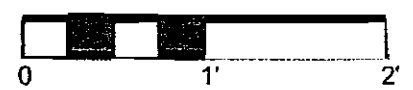
consultants:



prepared by:
Toni Clett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



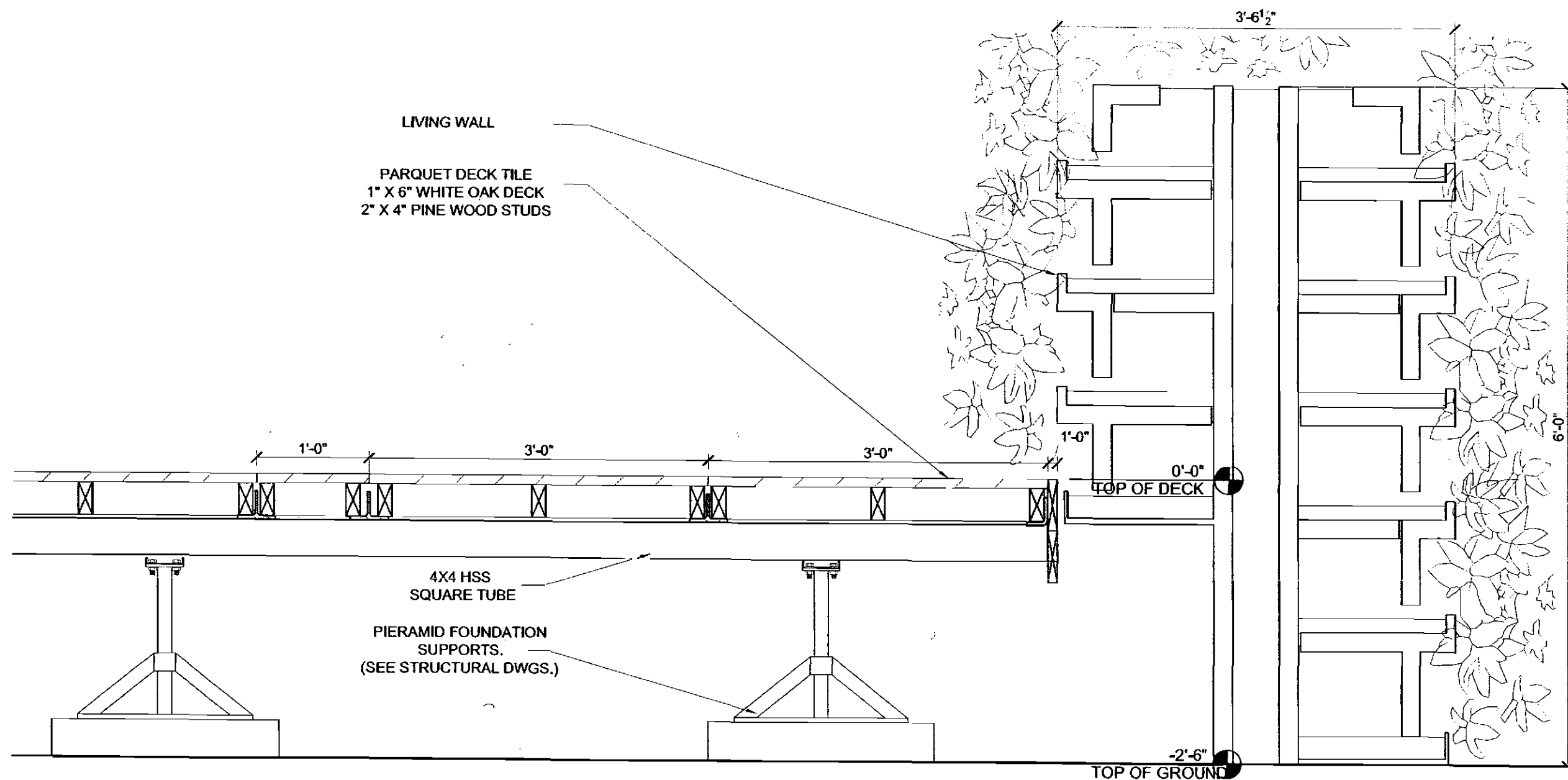
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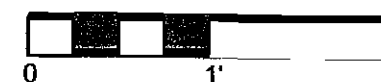
1 WEST DECK SECTION
L.4.4

DECKING SECTIONS - WEST FACE

L.4.4



1 BACK DECK SECTION
L.4.5



date	
description	
revision	

consultants:

prepared by:
Toni Clett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07

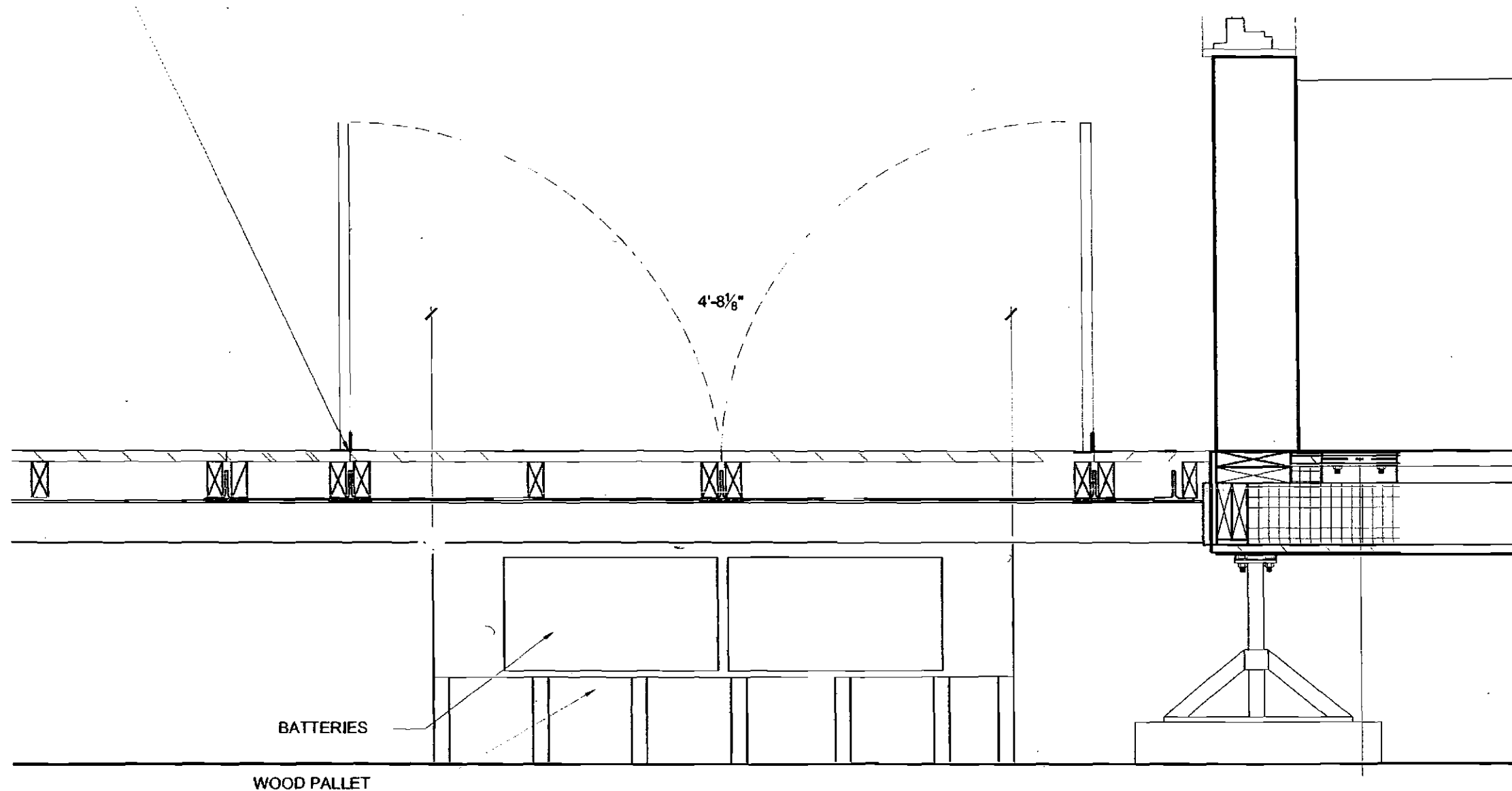


scale: 1" : 1' 0"

L.4.5

DECKING SECTIONS - NORTH FACE

DOOR HINGE



BATTERIES

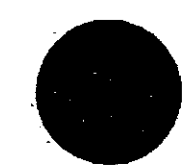
WOOD PALLET

1 BATTERY STORAGE SECTION
L.4.6

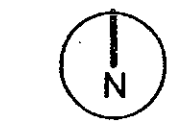


date	
description	
revision	

consultants:



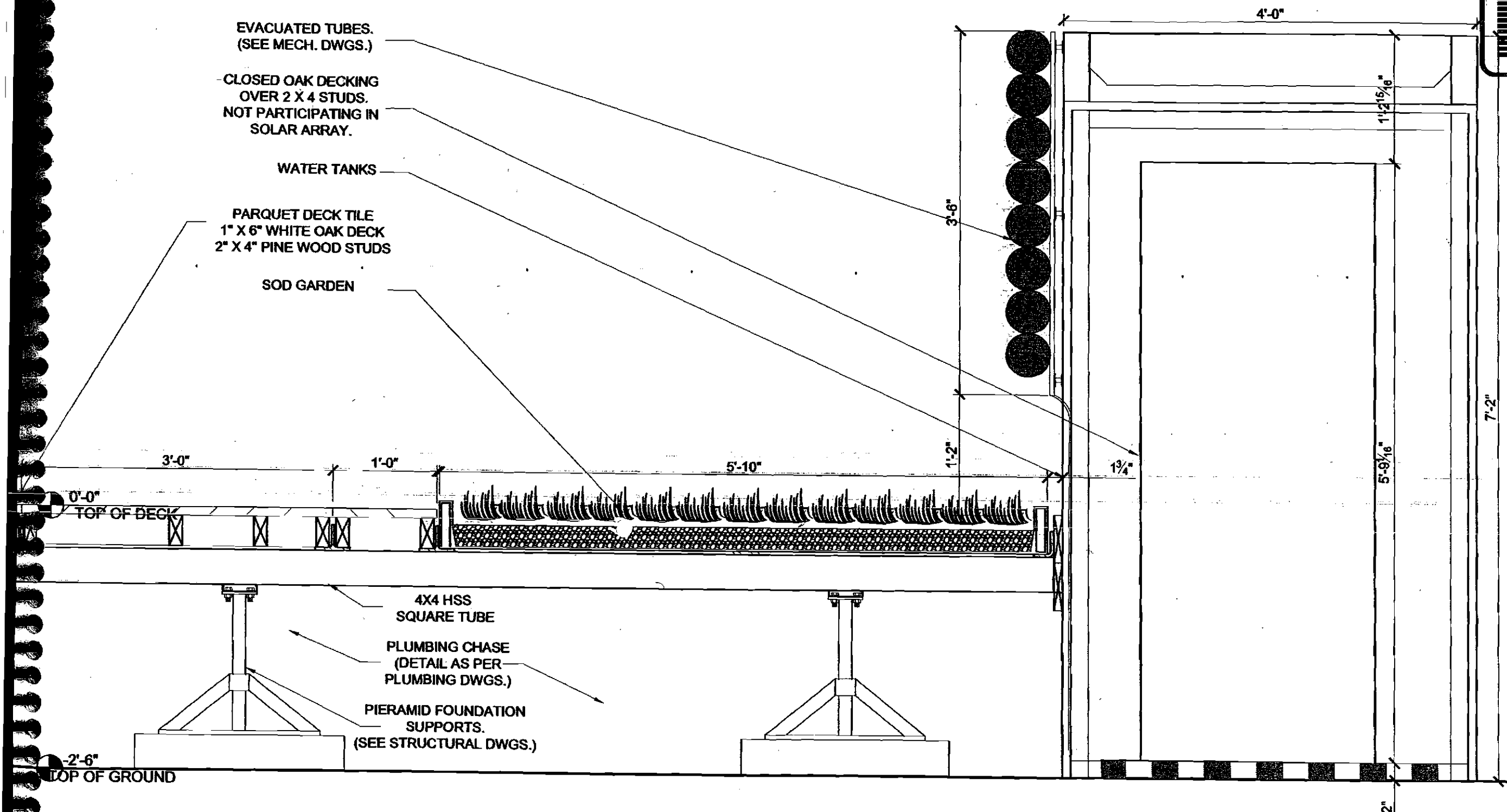
prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale: 1/2" : 1' 0"

L.4.6

DECKING SECTIONS - NORTH FACE



1 SOD DECK SECTION
L.4.7



date	description	revision

consultants:



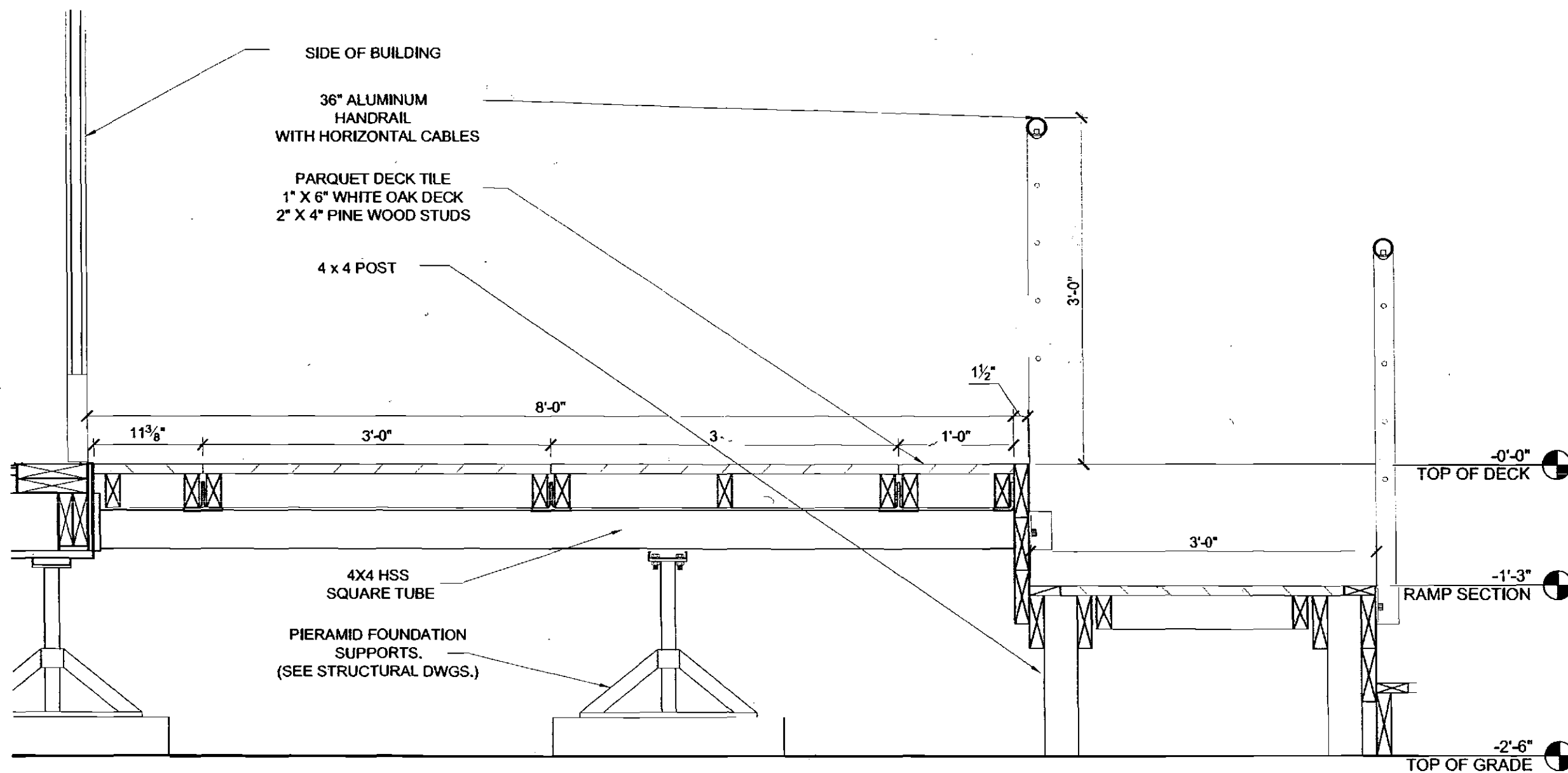
prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



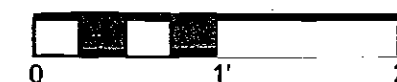
scale: 1" = 1' 0"

L.4.7

DECKING SECTIONS - NORTH FACE



1 NORTH DECK RAMP SECTION
L.4.8



date	
description	
revision	

consultants:

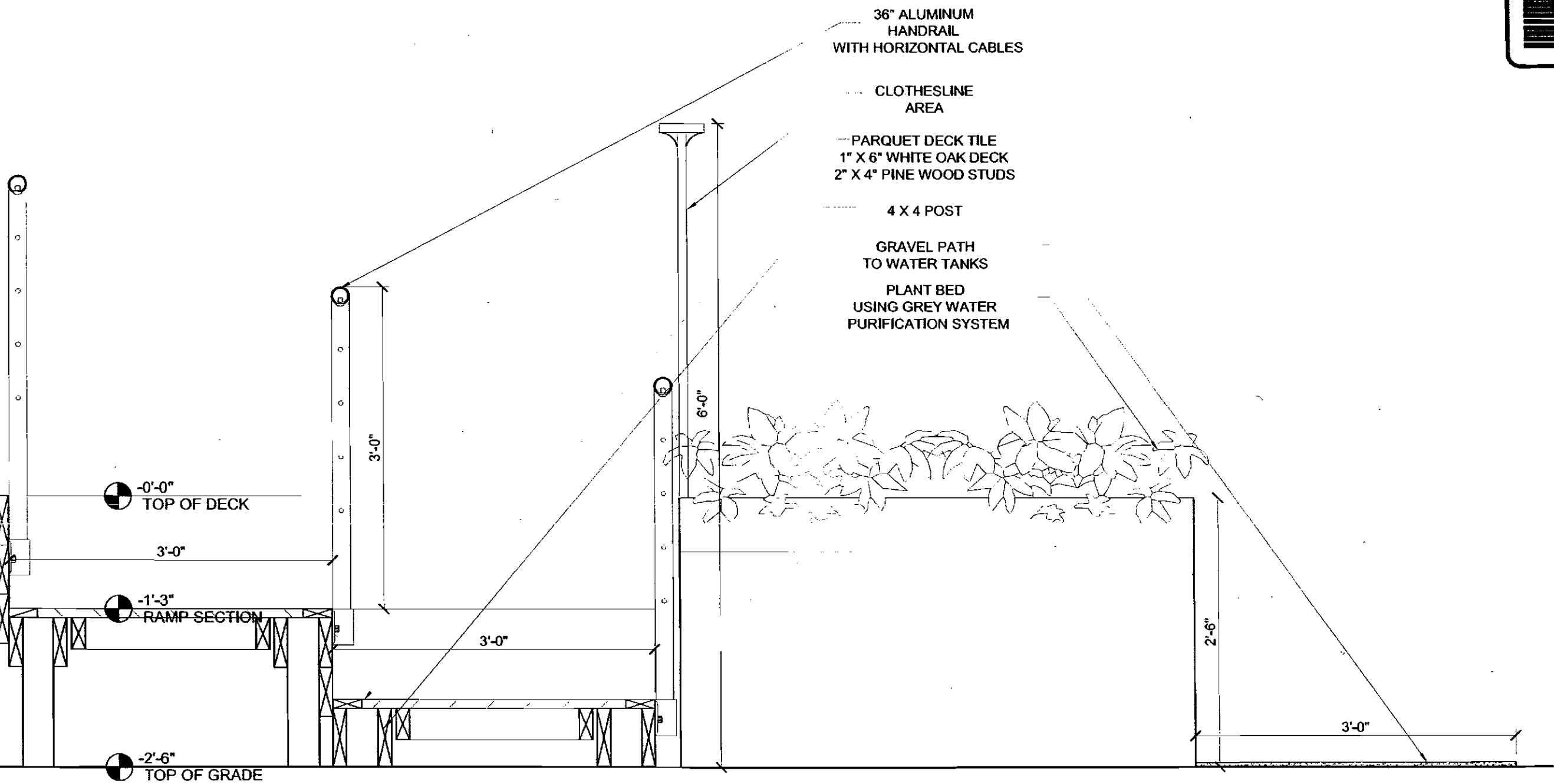
prepared by:
Toni Clett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



scale: 1" = 1'-0"

L.4.8

DECKING SECTIONS - NORTH FACE



36" ALUMINUM
HANDRAIL
WITH HORIZONTAL CABLES

CLOTHESLINE
AREA

PARQUET DECK TILE
1" X 6" WHITE OAK DECK
2" X 4" PINE WOOD STUDS

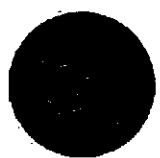
4 X 4 POST

GRAVEL PATH
TO WATER TANKS

PLANT BED
USING GREY WATER
PURIFICATION SYSTEM

date	
description	
revision	

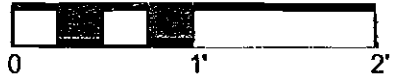
consultants:



prepared by:
Toni Cliett
Barbara Hearon
date drawn:
12.01.06 / 3.06.07



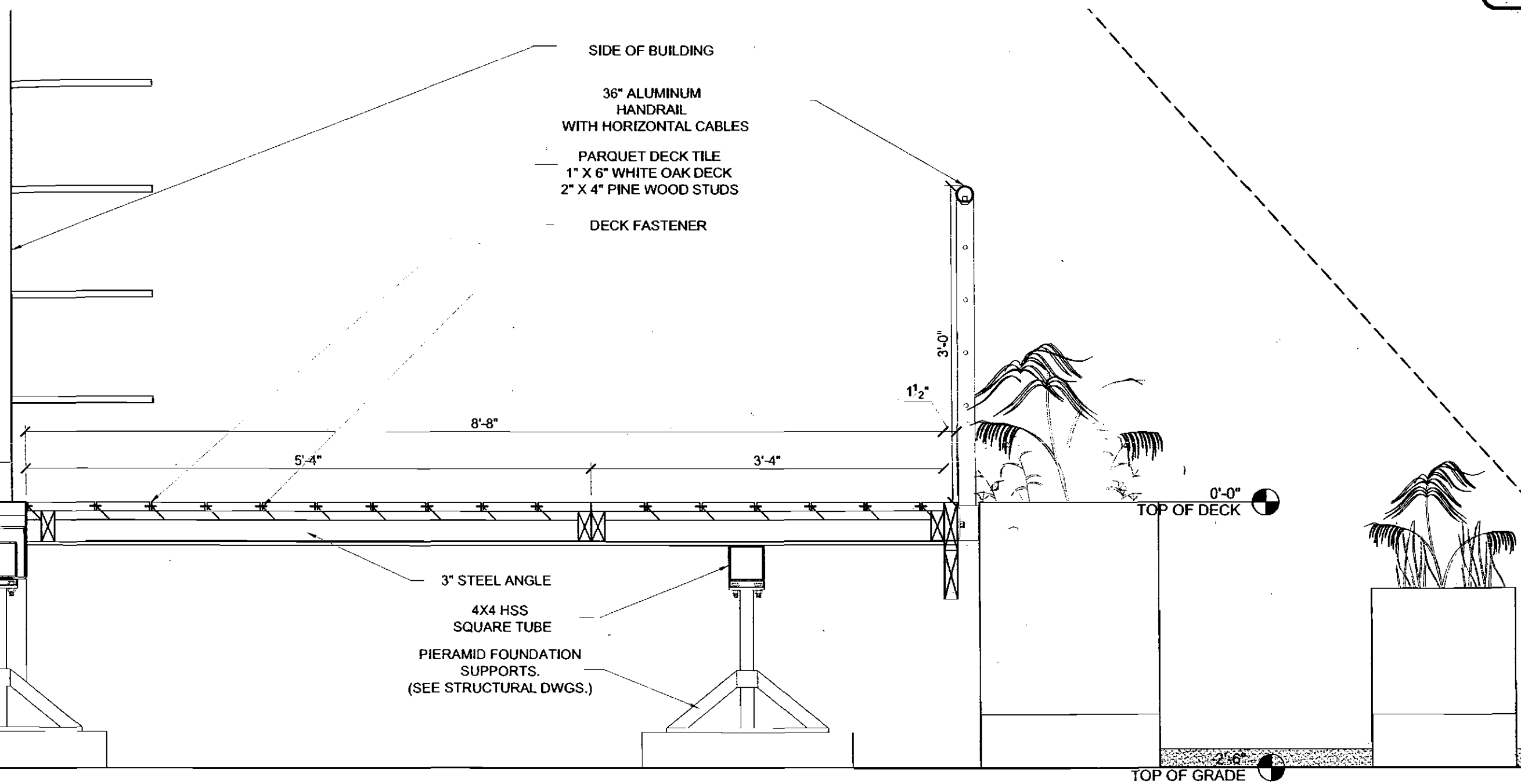
scale: 1" : 1'0"



1 NORTH RAMP SECTION
L.4.9

DECKING SECTIONS - NORTH FACE

L.4.9

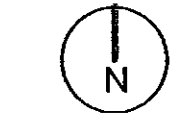


date	
description	
revision	

consultants:



prepared by:
 Toni Clett
 Barbara Hearon
 date drawn:
 12.01.06 / 3.06.07



scale: 1" : 1' 0"

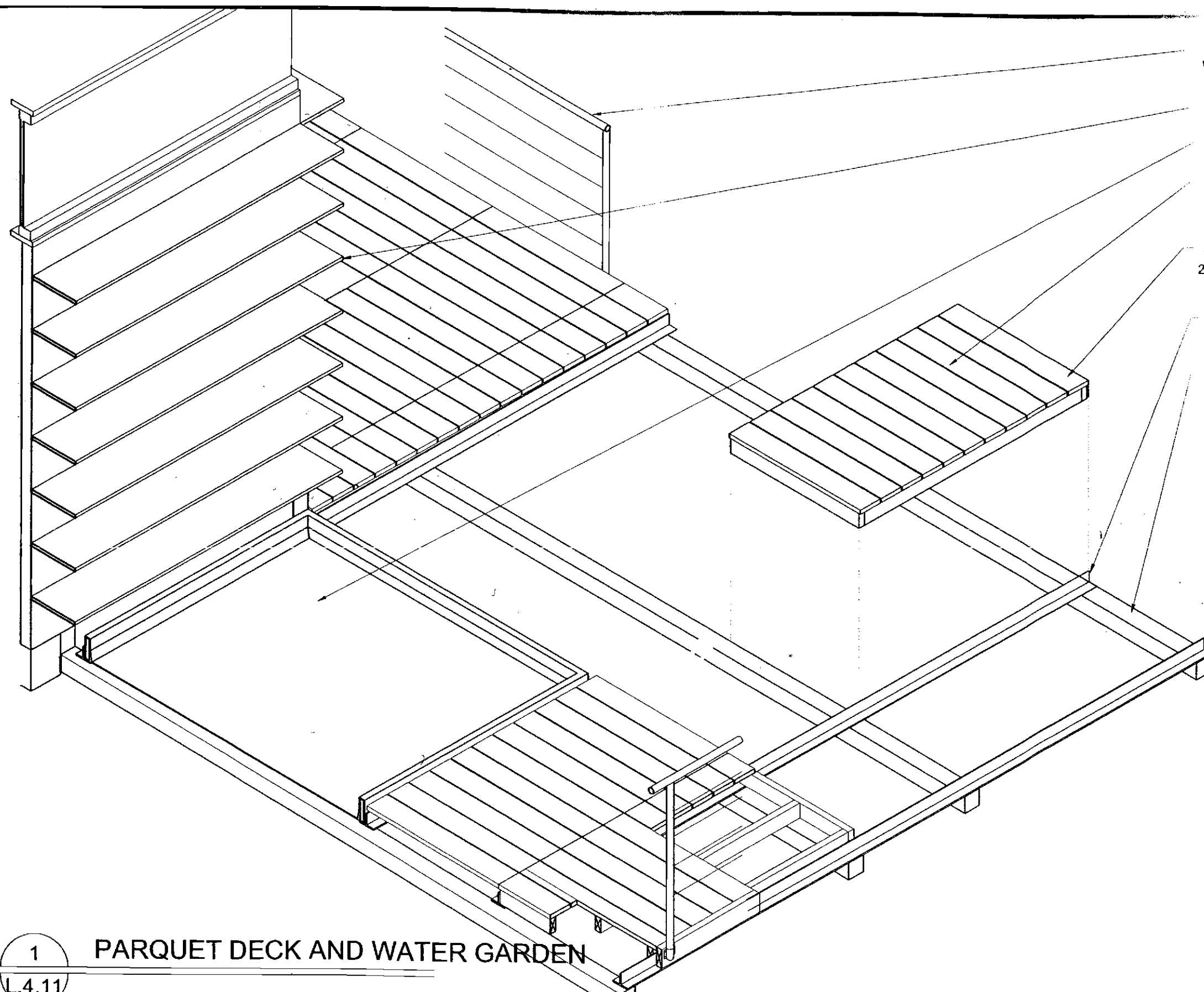
L.4.10

DECKING SECTIONS - EAST FACE

1 EAST DECK SECTION

L.4.10





36" ALUMINUM
HANDRAIL
W/ HORIZONTAL CABLES

OPERABLE LOUVER
SHADES

WATER GARDEN

INSTALLATION OF
DECK PARQUET

PARQUET DECK TILE
1" X 6" WHITE OAK DECK
2" X 4" PINE WOOD STUDS

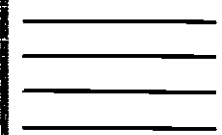
3" STEEL T-SECTION

4" STEEL
SQUARE TUBE



date	
description	
revision	

consultants:

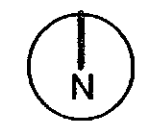


prepared by:

Toni Cliett
Barbara Hearon

date drawn:

12.01.06 / 3.06.07



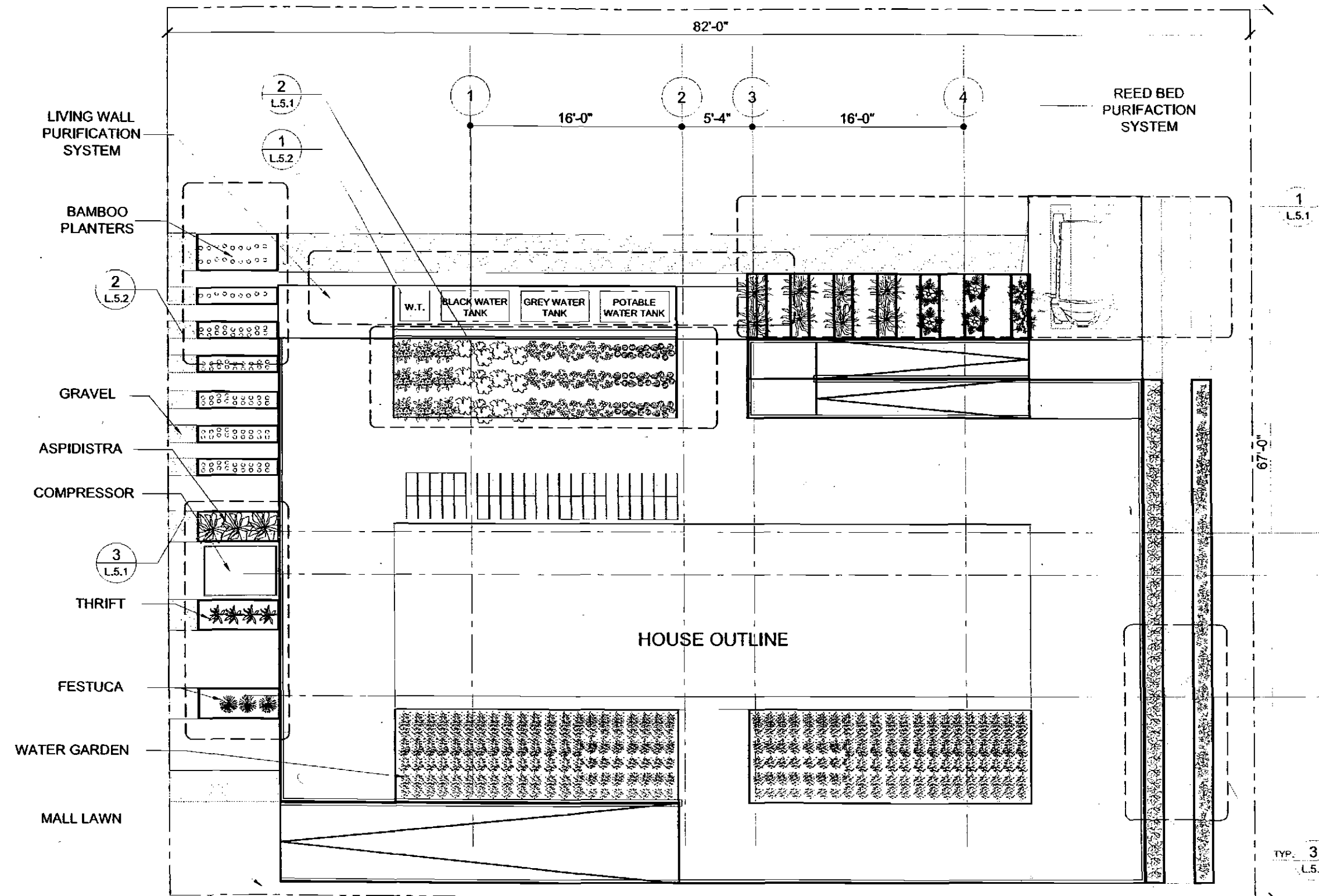
scale:

L.4.11

DECKING AXONOMETRIC

1
L.4.11

PARQUET DECK AND WATER GARDEN



date	
description	
revision	

consultants:	

prepared by:
 Amanda Cook
 Barbara Hearon
 date drawn:
 11.27.06 / 03.06.07



scale:
 L.5.0

PLANTING PLAN

1 PLANTING PLAN
 L. 5.0

DECATHLETE WAY





date	
description	
revision	

consultants:

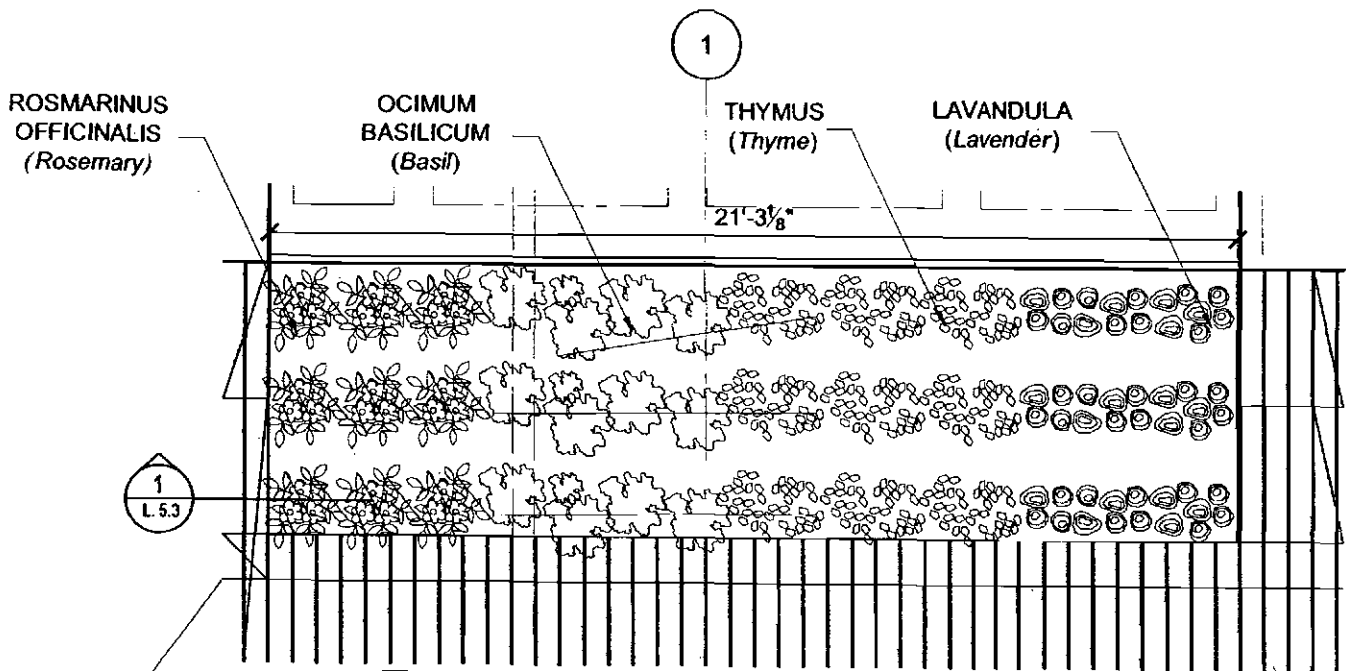
prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07



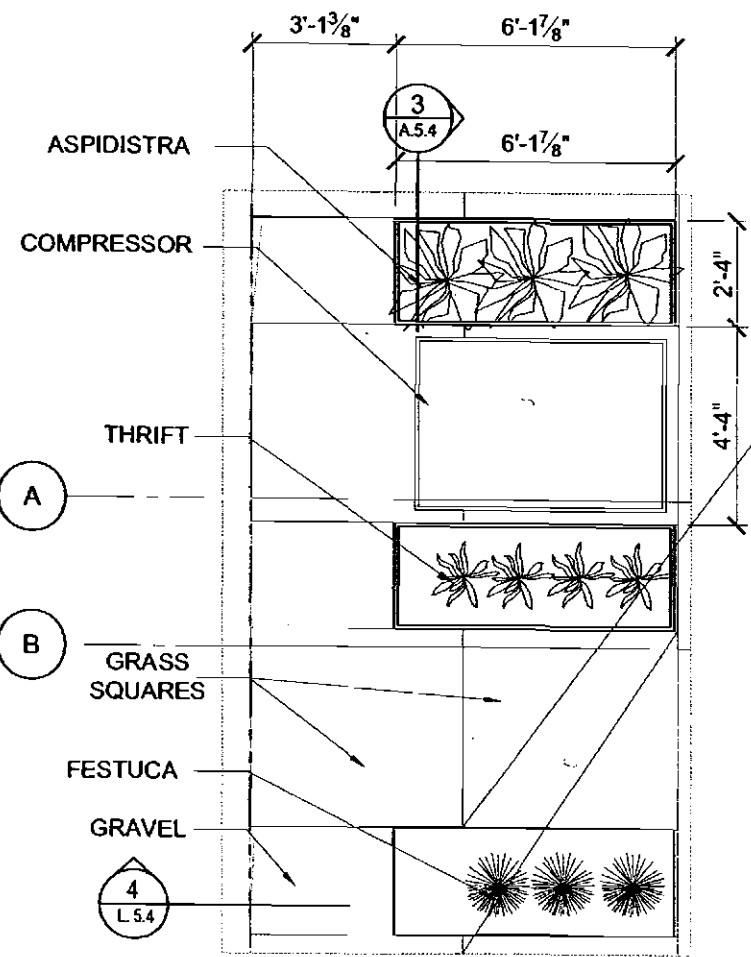
scale: 1/4" = 1' 0"

L.5.1

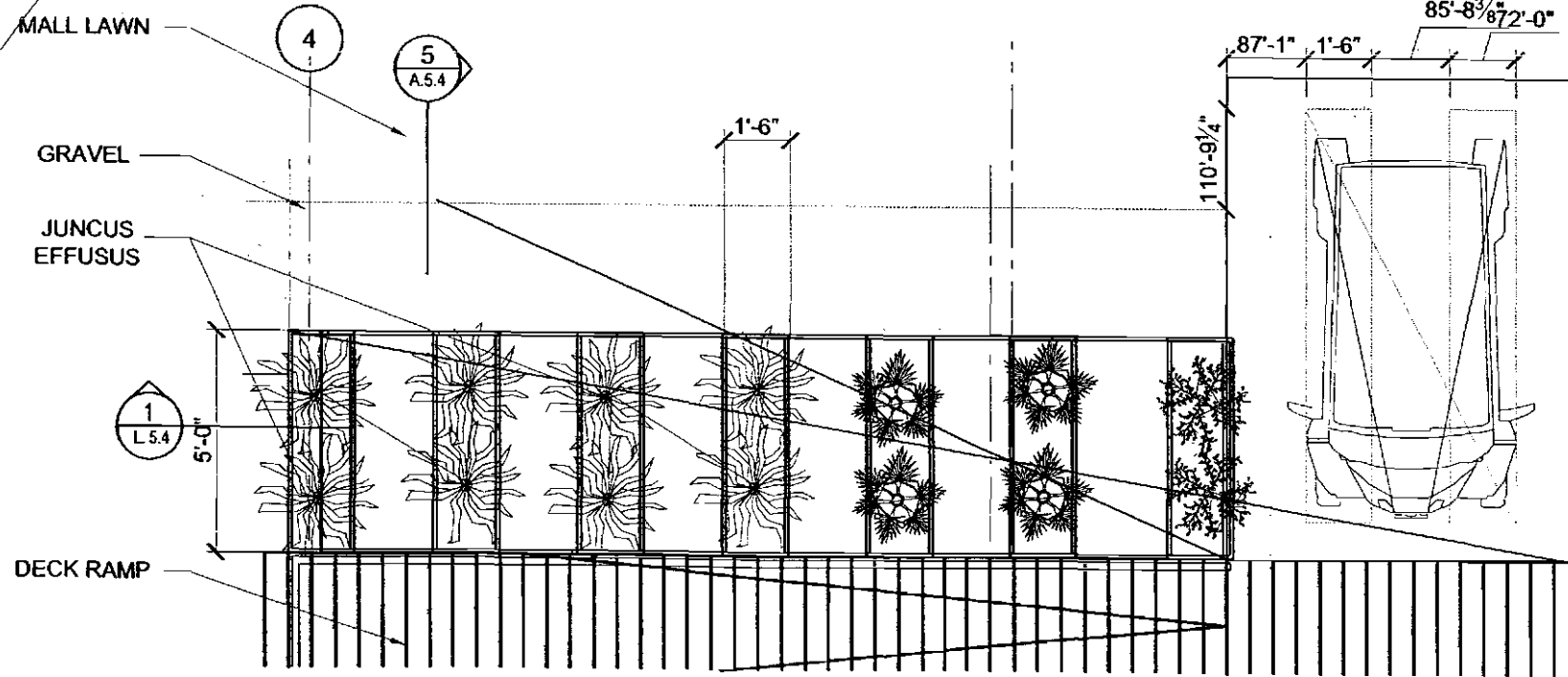
LANDSCAPE DETAILS



2 HERB GARDEN PLAN
L.5.1

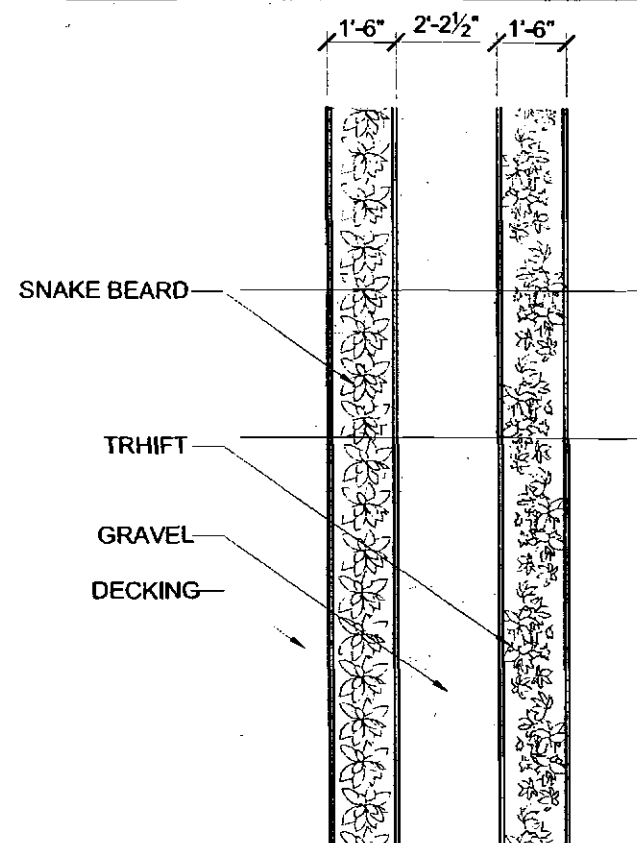


3 PLANTING PLAN- WEST
L.5.1

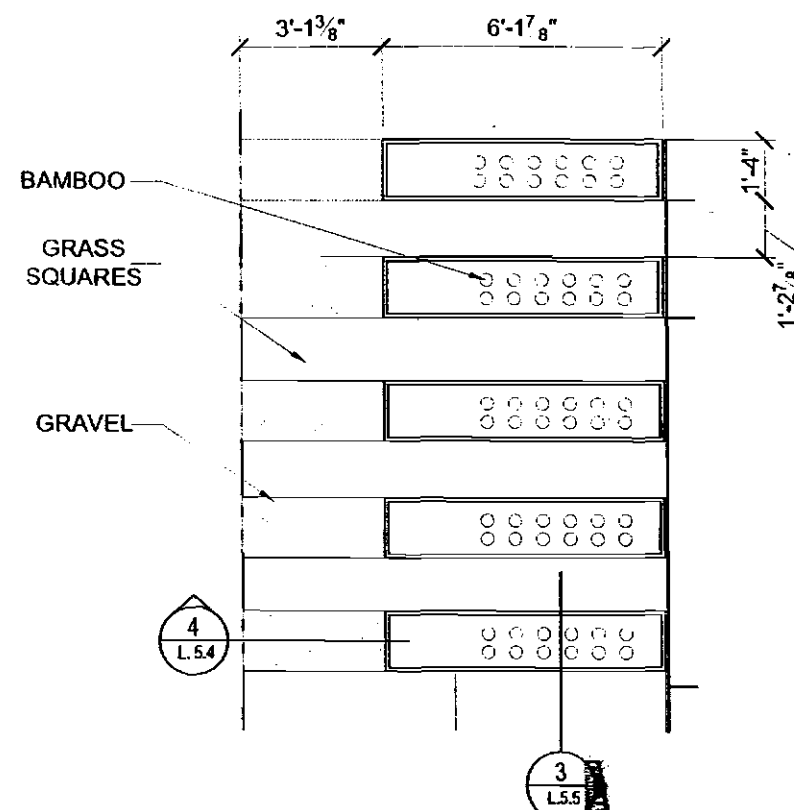


1 REED GARDEN PURIFICATION PLAN
L.5.1

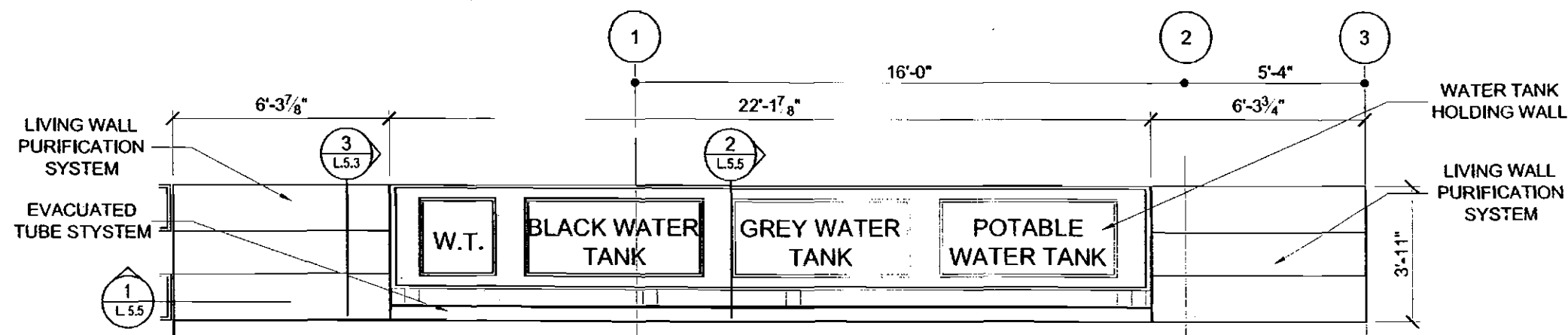




3 PLAN EAST PLANTERS - TYP.
L5.2



2 PLAN BAMBOO PLANTERS
L5.2



1 PLAN WATER TANKS/ LIVING WALLS
L5.2

date	
description	
revision	

consultants:

prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07

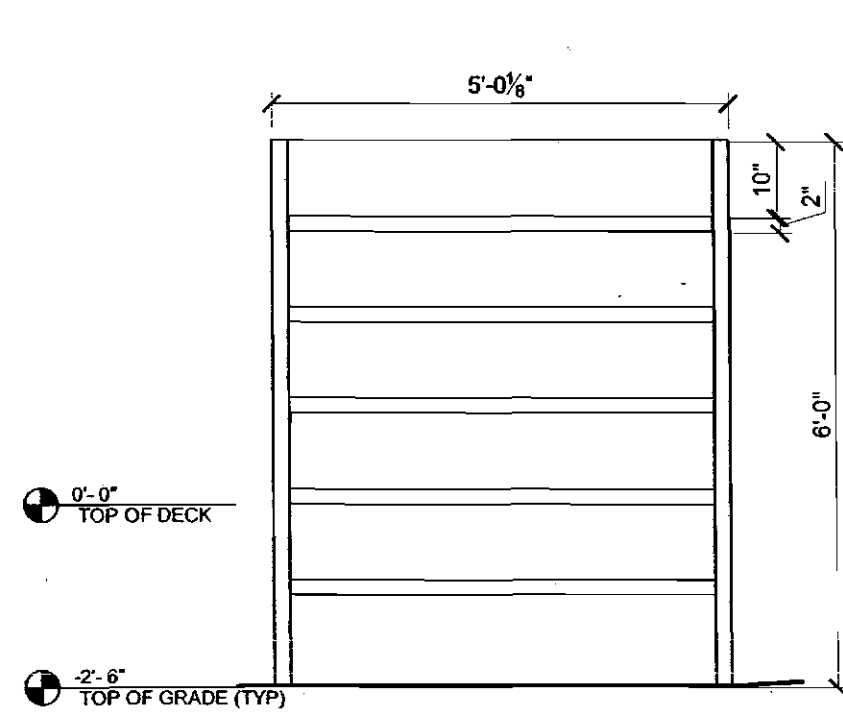


scale: 1/4" : 1' 0"

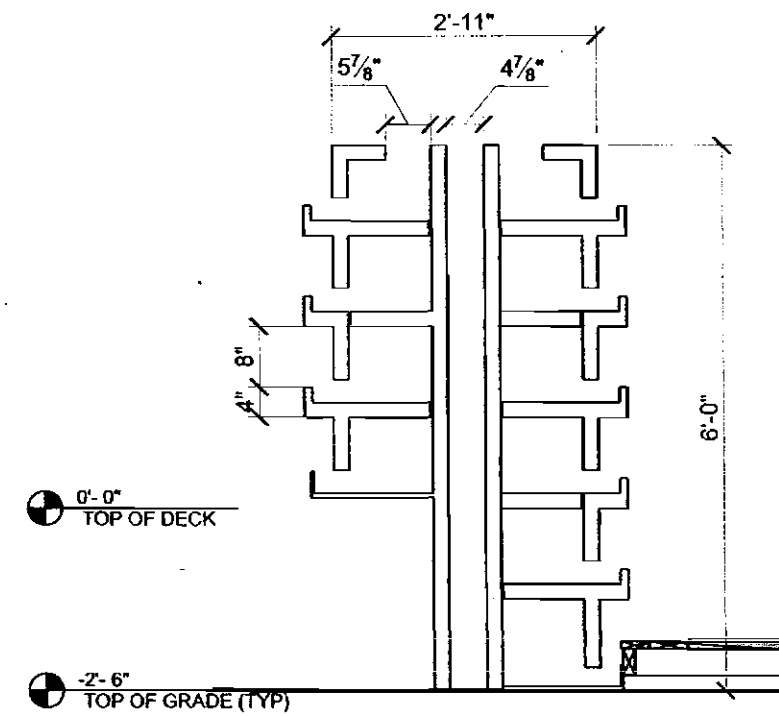
A.5.2

LANDSCAPE DETAILS

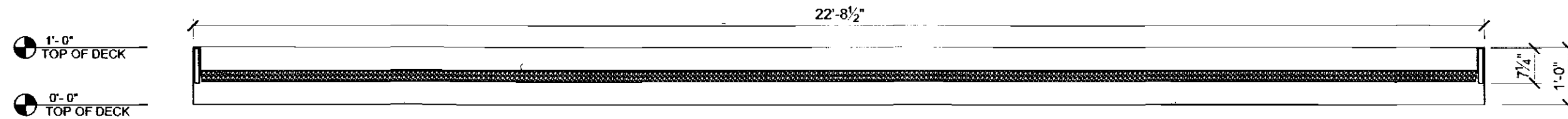




4 LIVING WALL SECTION
L.5.3



3 LIVING WALL SECTION
L.5.3



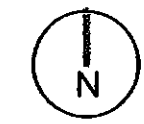
1 HERB PLANTER SECTION
L.5.3



date	
revision	
description	

consultants:

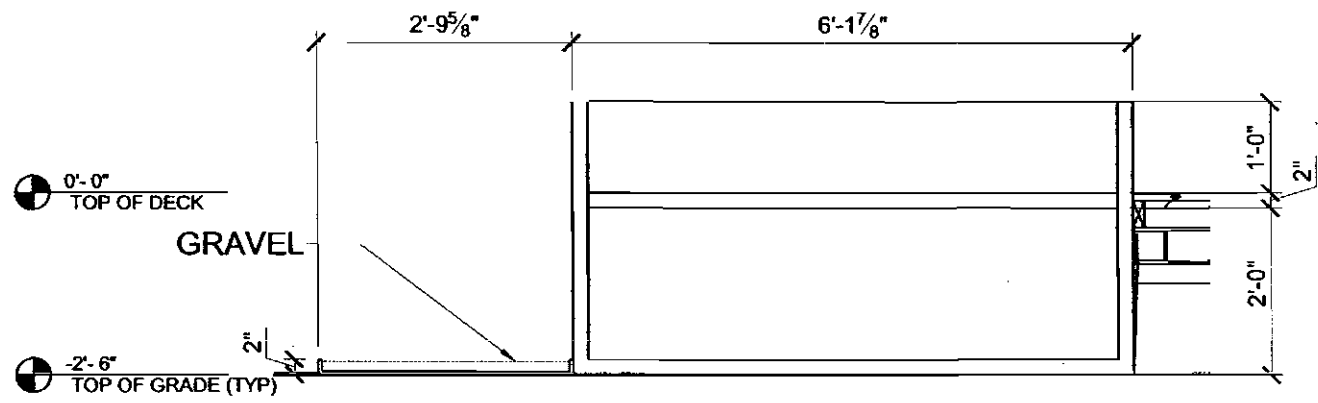
prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07



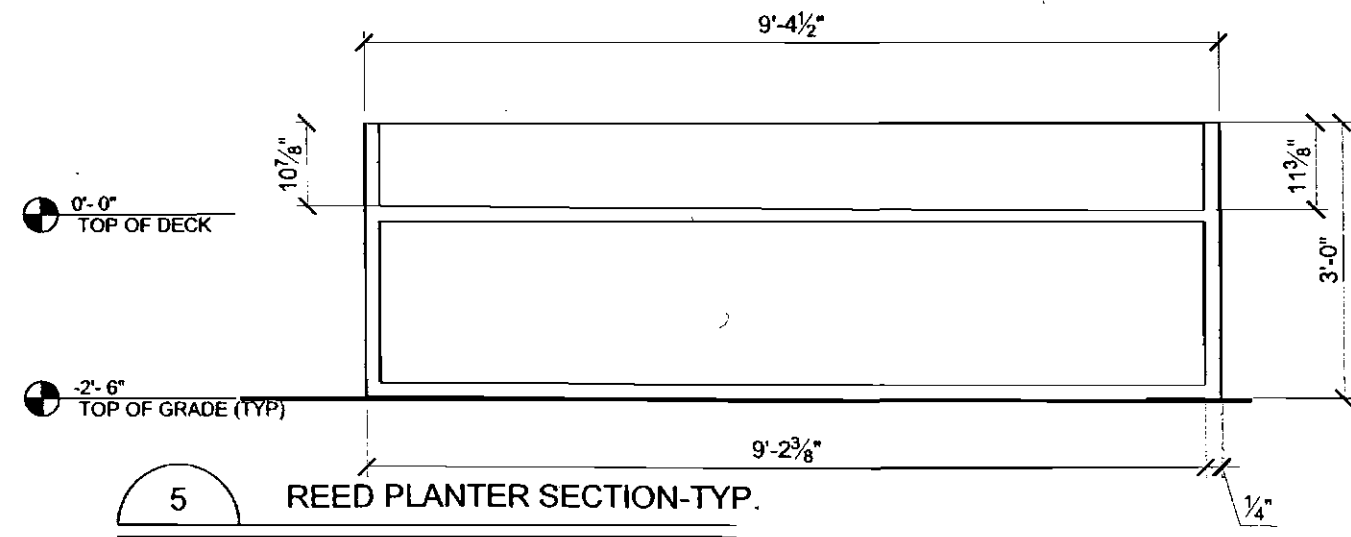
scale: 1/2" = 1' 0"

L.5.3

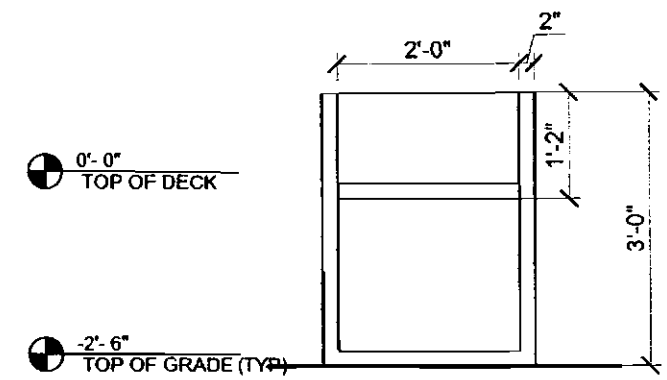
LANDSCAPING DETAILS



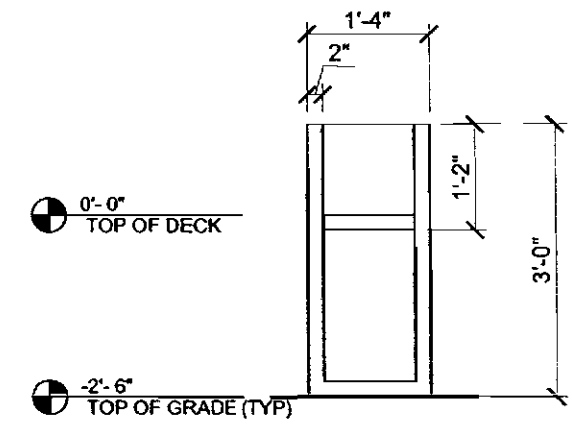
4 WESTERN PLANTER - SECTION TYP.
L.5.4



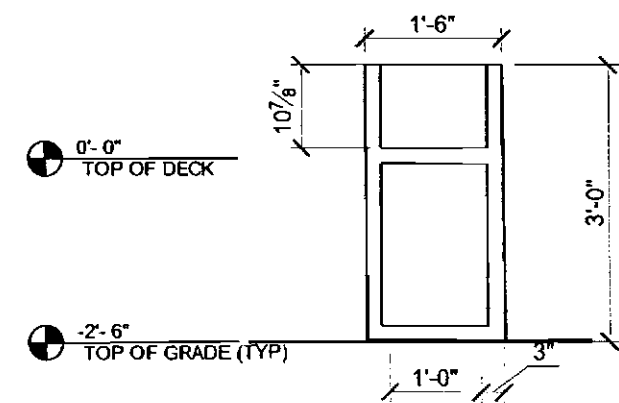
5 REED PLANTER SECTION-TYP.
L.5.4



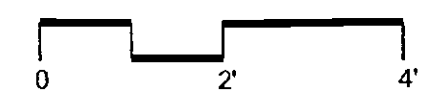
3 WESTERN PLANTER - TYP.
L.5.4



2 BAMBOO PLANTER - TYP.
L.5.4



1 REED PLANTER SECTION - TYP.
L.5.4



date	
description	
revision	

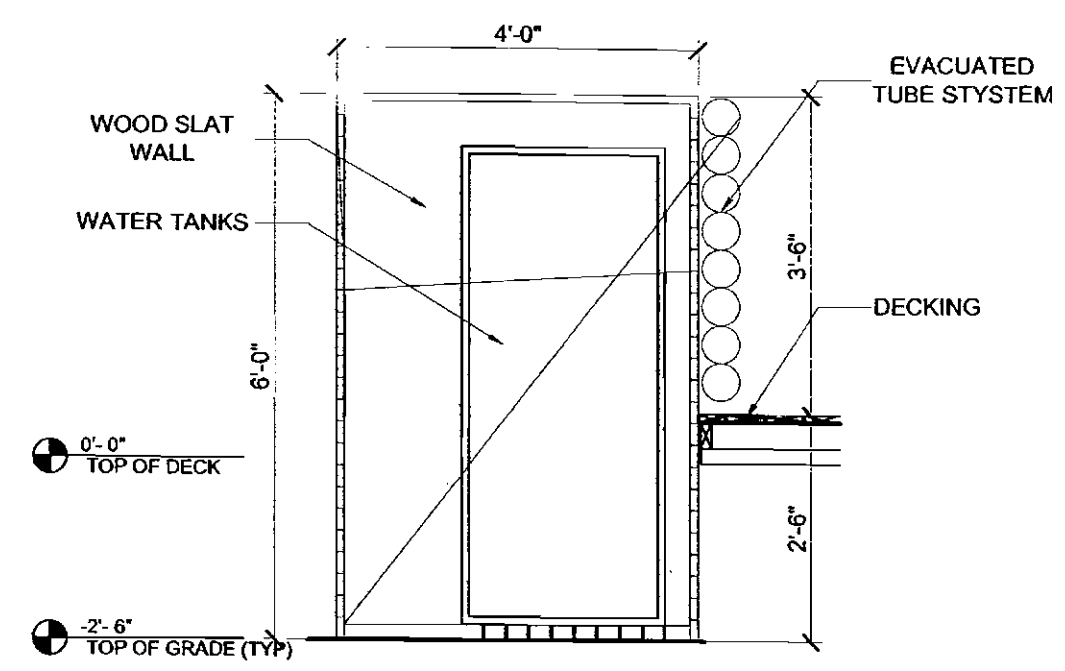
consultants:	

prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07

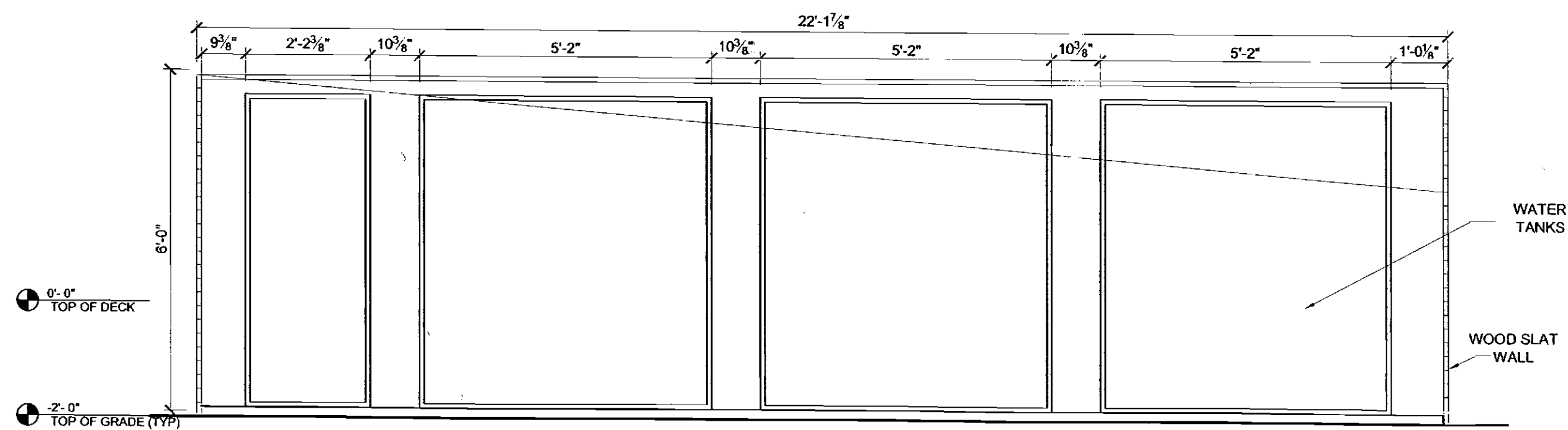


scale: 1/2" = 1' 0"

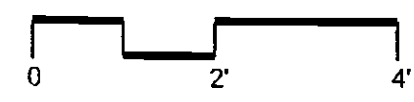
L.5.4



2
L.5.5
WATER TANK SECTION



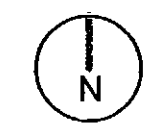
1
L.5.5
WATER TANK SECTION



date	
description	
revision	

consultants:

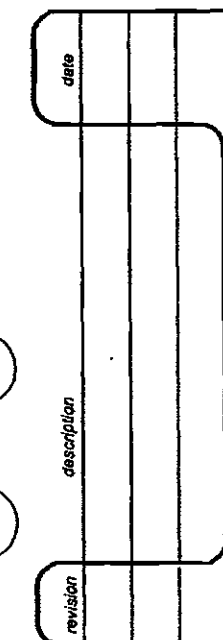
prepared by:
Amanda Cook
Barbara Hearon
date drawn:
12.01.06 / 03.06.07




scale: 1/2" = 1' 0"

L.5.5

LANDSCAPING DETAILS





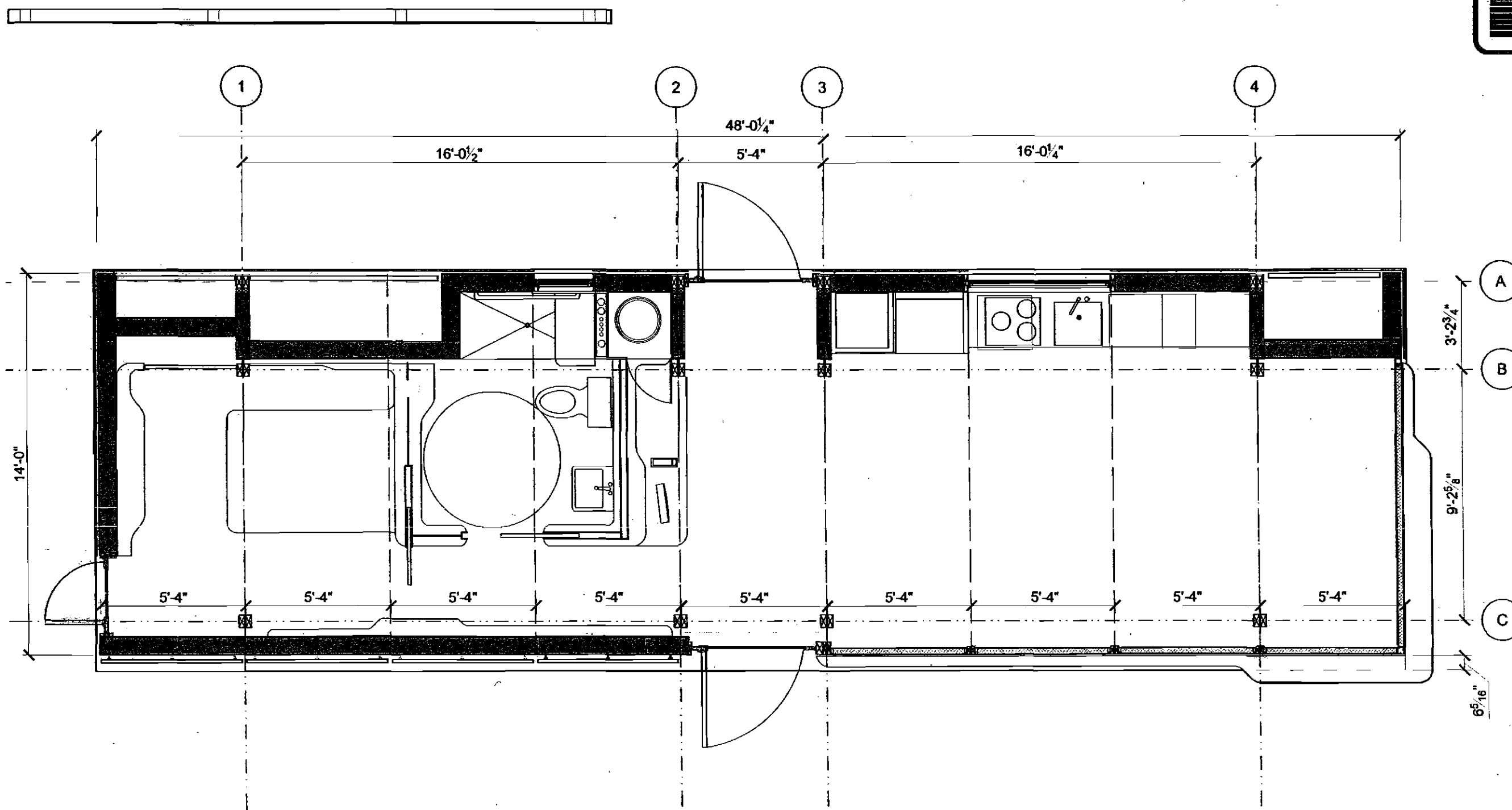
A.1.0

THE CORPLAN

A.1.0

MEASURED USING ADOBE PRO 7:
HOUSE = 722.42 sf
EVACUATED TUBING = 11.08 sf
TOTAL = 733.5 sf





date	
description	
revision	

consultants:

prepared by:
 Tony Piede
 Nadine Kashlan
 date drawn:
 03.06.07
 12.06.06



scale: 1/4" = 1'-0"



AREA CALCULATION

1 FLOOR PLAN

A.1.0

MEASURED USING ADOBE PRO 7:
 HOUSE = 722.42 sf
 EVACUATED TUBING = 11.08 sf
 TOTAL = 733.5 sf

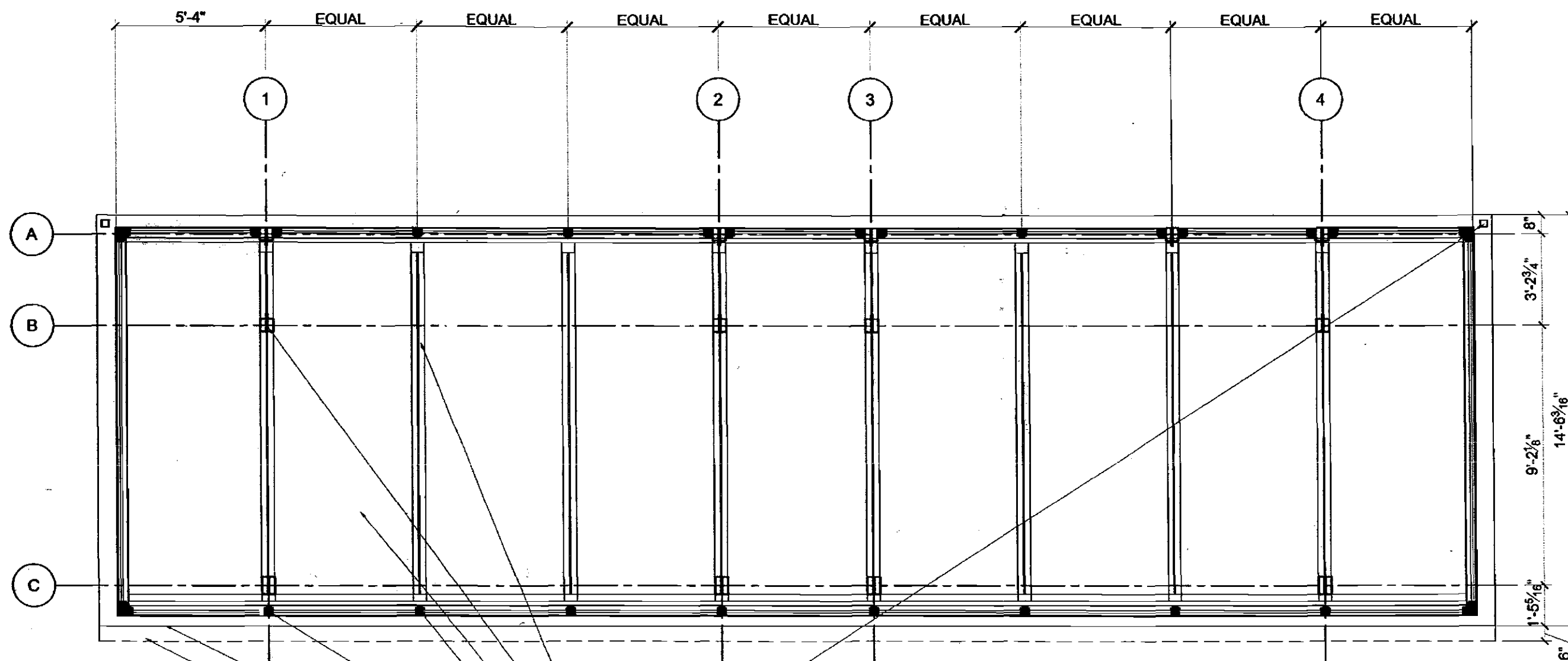
Area Measurement 3/4/2007 2:37:11 PM *
 gtd299h Options

Area:
 721.66 square ft

Area Measurement 3/4/2007 2:36:56 PM *
 gtd299h Options

Area:
 11.08 square ft

A.1.0.A



- DOWNSPOUT
- EXPOSED FLITCH PLATE STRUCTURE
- FLITCH PLATE COLUMN
- AEROGEL SANDWICH PANEL
- FIBERGLASS FRAME MULLION FOR CLERESTORY
- .019 ALUMINUM SOFFIT
- EXTENDED SHADING PANELS

A1 REFLECTED CEILING PLAN
A.1.1



date	
revision	
description	

consultants:

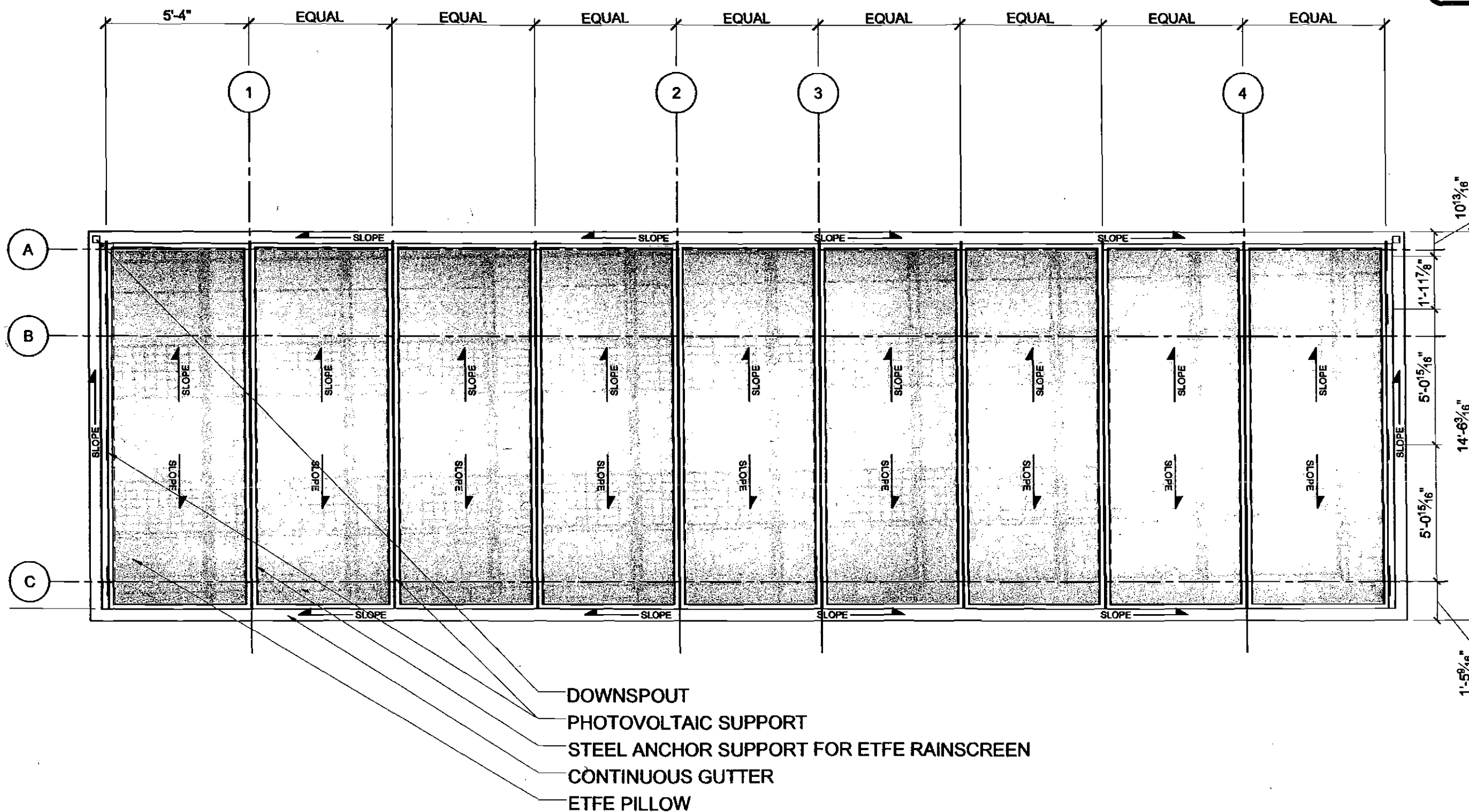
prepared by:
Alstan Jakubiec
date drawn:
12.04.06
03.03.07



scale: 1/4" = 1' 0"

A.1.1

REFLECTED CEILING PLAN



A1 ROOF PLAN AT THE LEVEL OF THE ETFE
A.1.2



date	
revision	
description	

consultants:

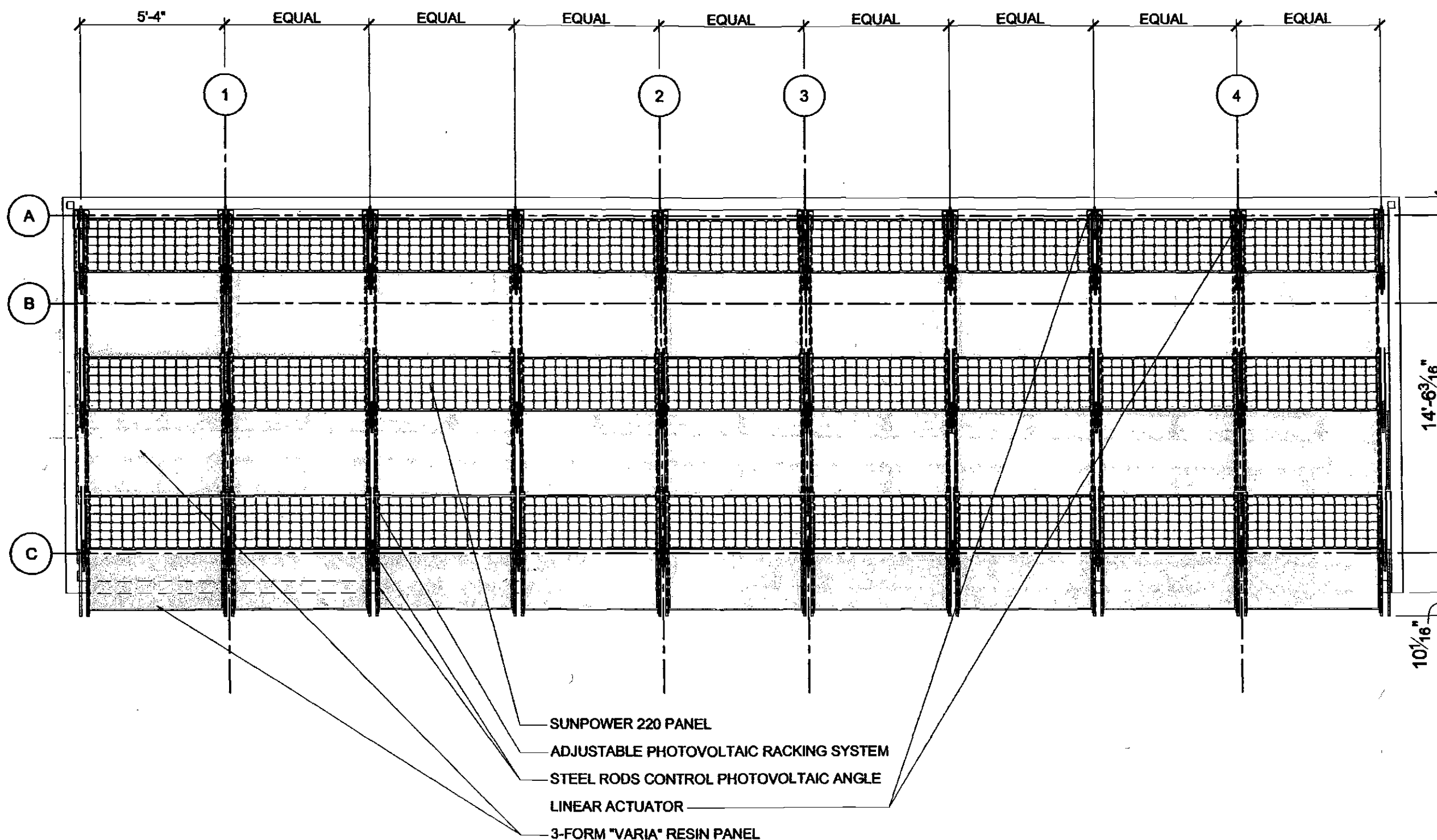
prepared by:
Alistan Jakubiec
date drawn:
12.04.06



scale: 1/4" : 1' 0"

A.1.2

ROOF PLAN AT ETFE



date	
description	
revision	

consultants:

prepared by:
Alistan Jakubiec
date drawn:
12.04.06
03.03.07



scale: 1/4" : 1' 0"

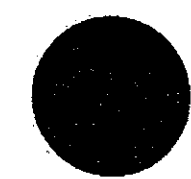
ROOF PLAN AT PV ARRAY

A1 ROOF PLAN AT PV ARRAY
A.1.3

A.1.3

date	
description	
revision	

consultants	
-------------	--

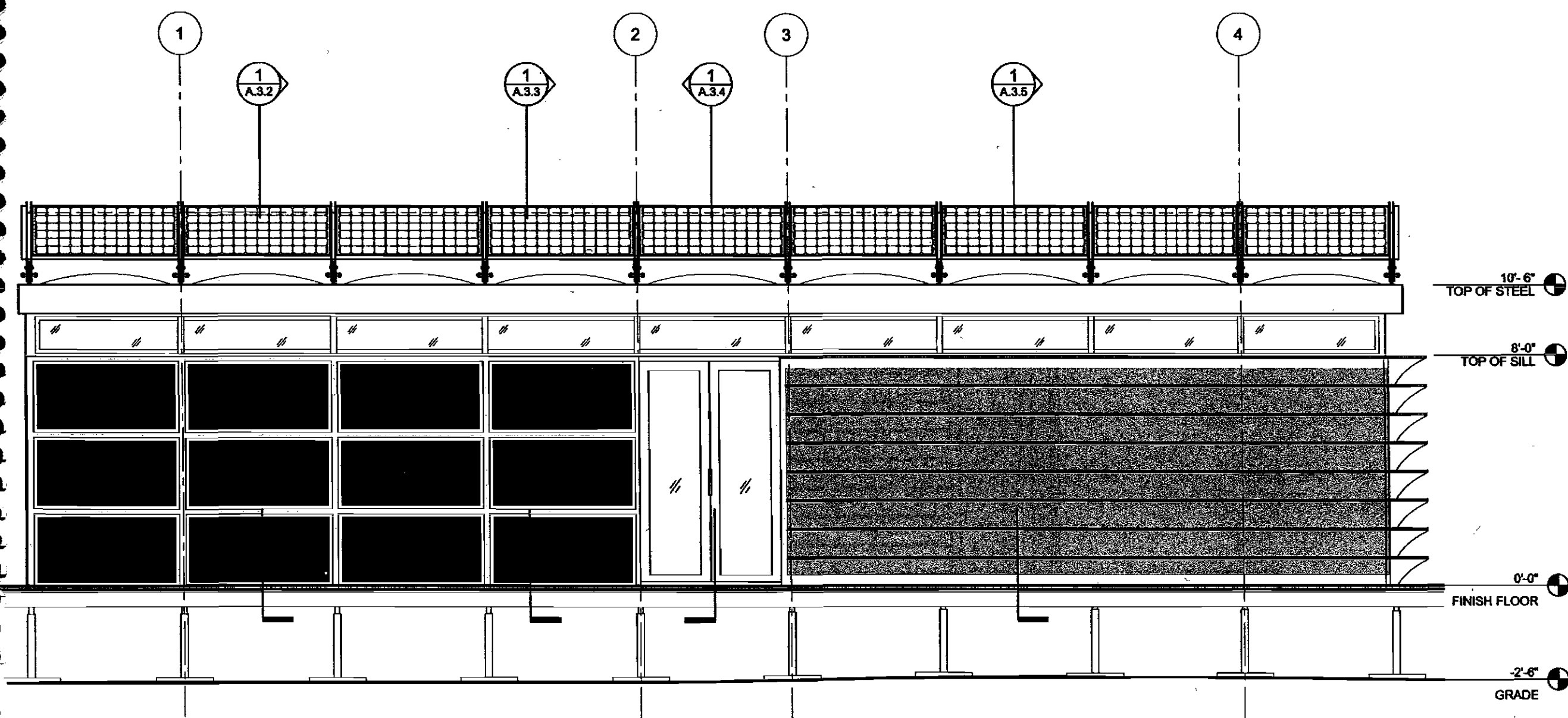


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

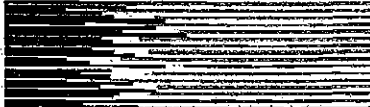
scale: 1/4" : 1' 0"

A.2.0

EXTERIOR ELEVATIONS

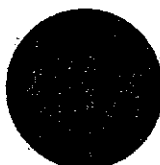


1 SOUTH ELEVATION
A.2.0



date	
description	
revision	

consultants:

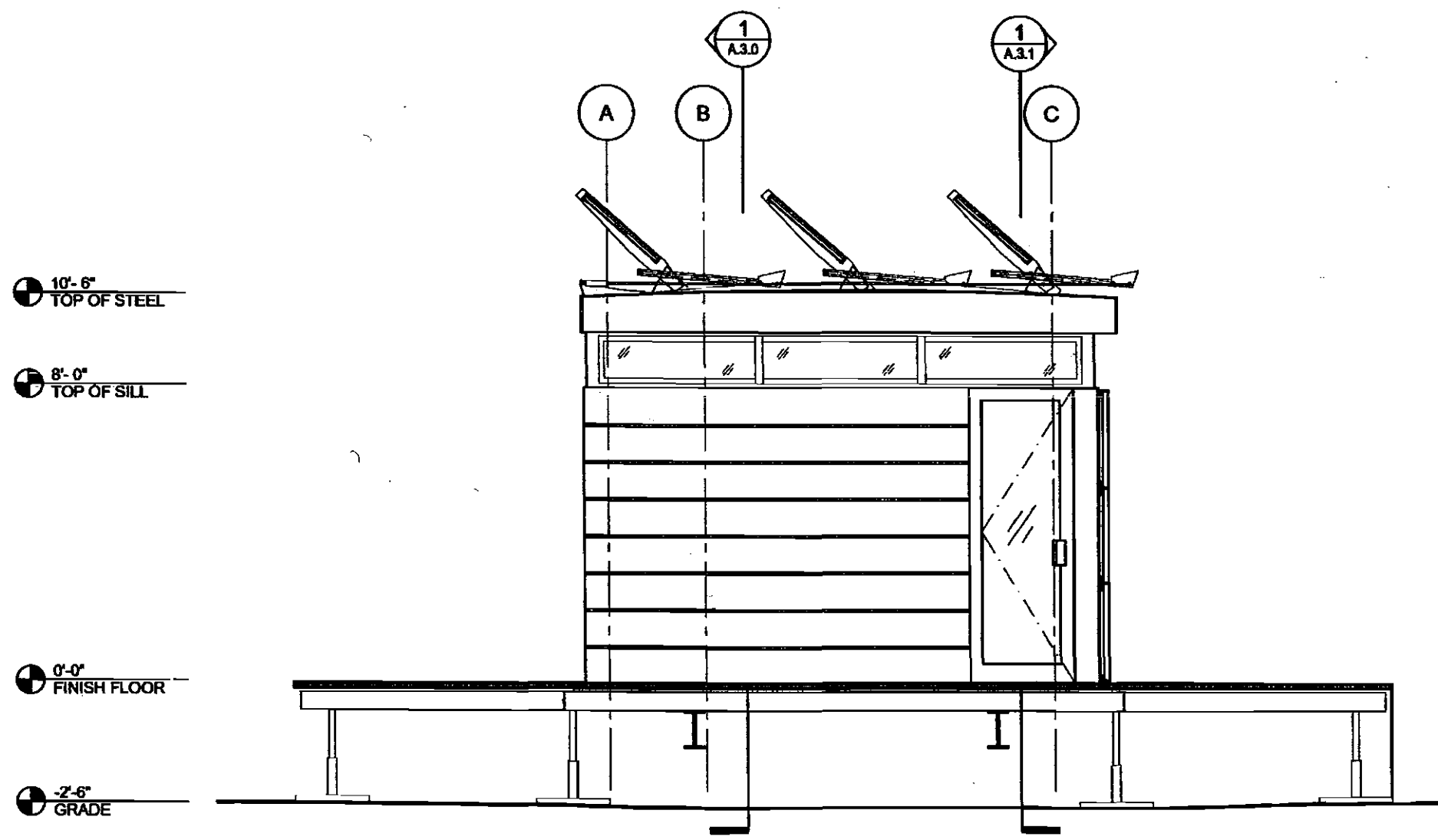


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

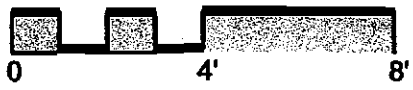
scale: 1/4" : 1' 0"

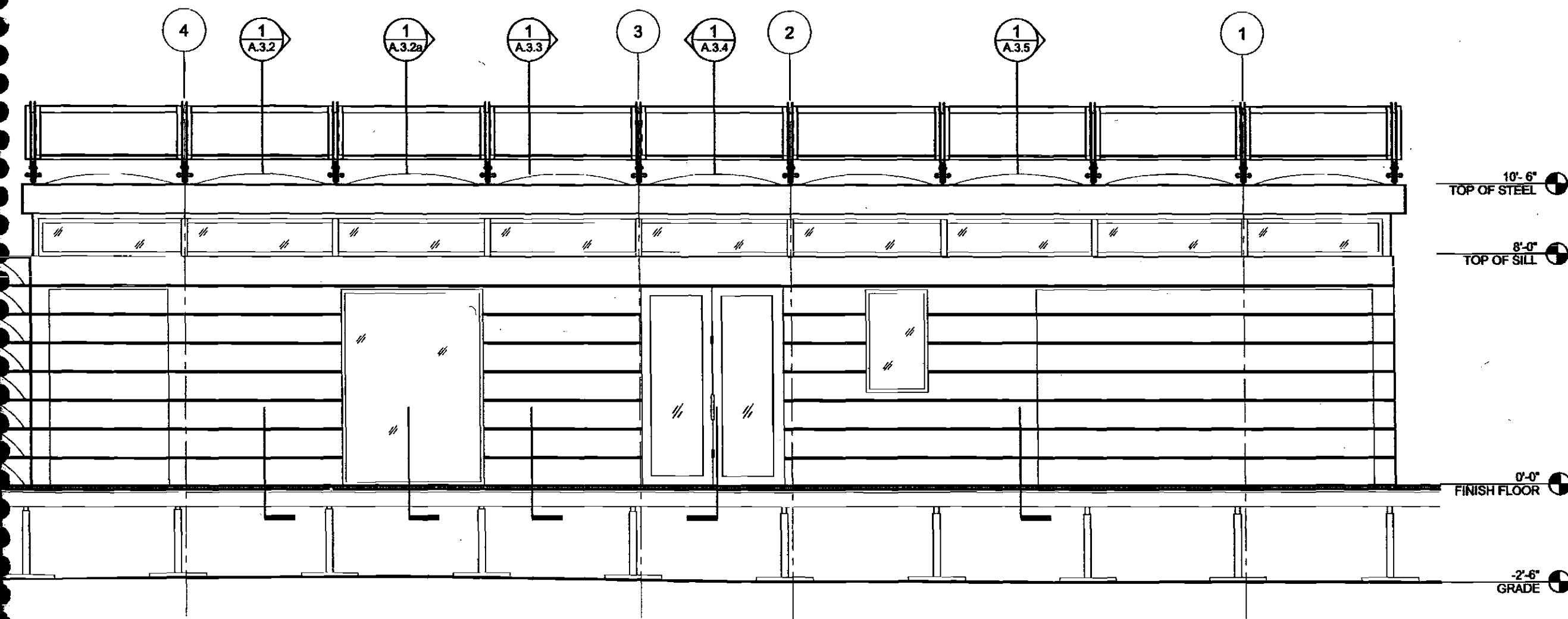
A.2.1

EXTERIOR ELEVATIONS



1 WEST ELEVATION
A.2.1





date	
description	
revision	

consultants:

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

scale: 1/4" : 1' 0"

A.2.2

EXTERIOR ELEVATIONS

1 NORTH ELEVATION

A.2.2

date	
description	
revision	

consultants:

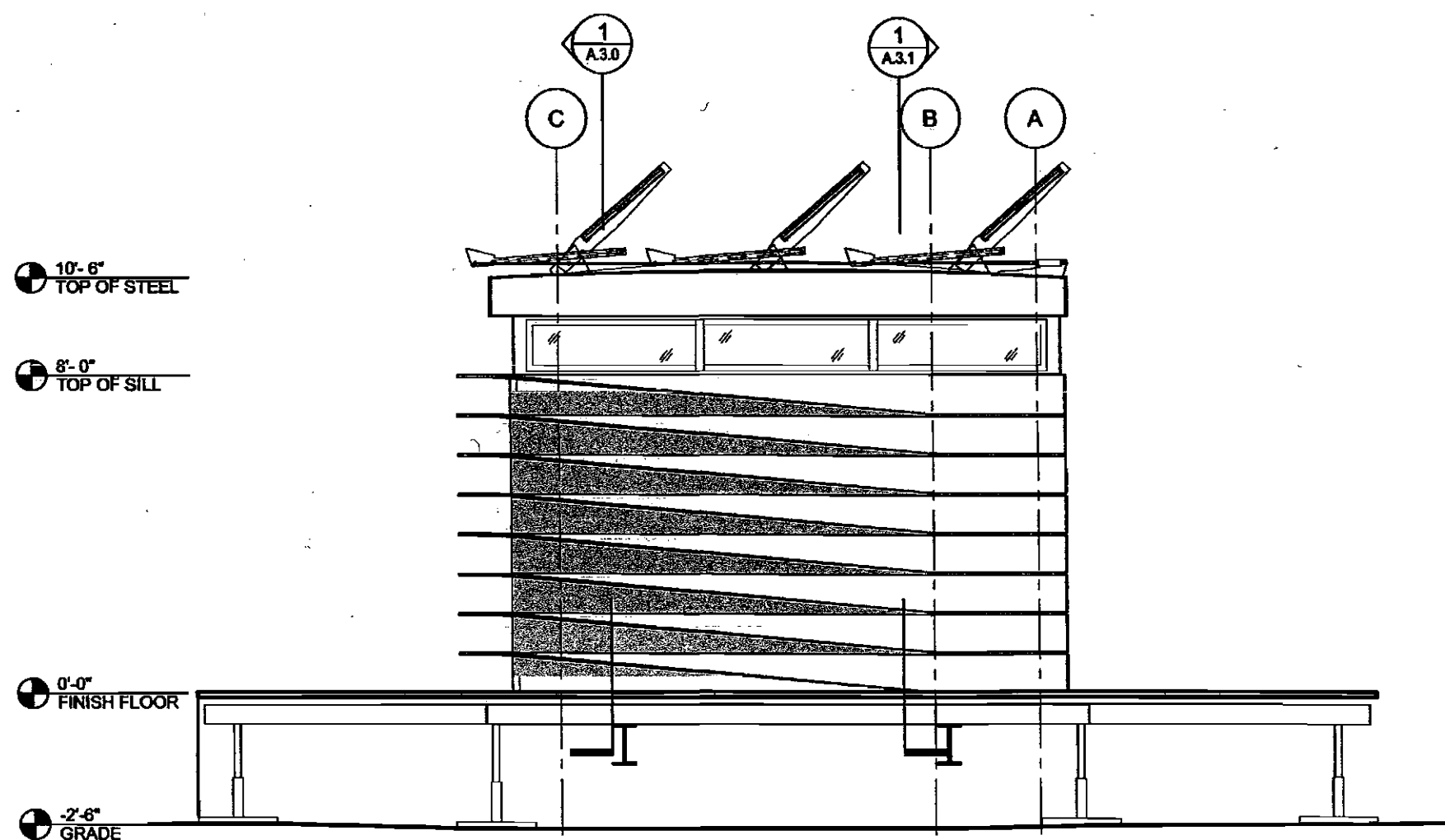


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

scale: 1/4" = 1' 0"

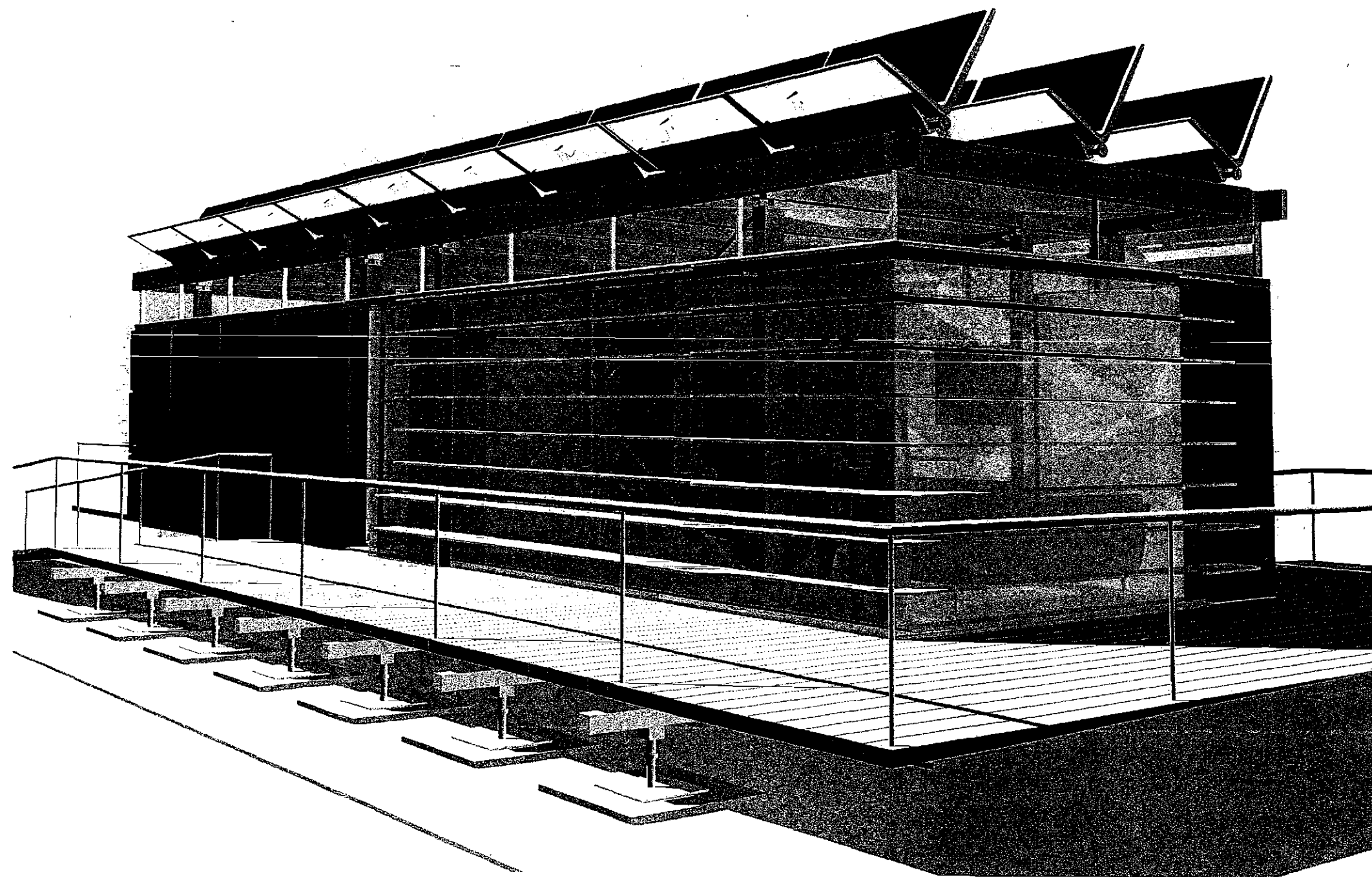
A.2.3

EXTERIOR ELEVATIONS



1 EAST ELEVATION
A.2.3





GEORGIA TECH SOLAR DECATHLON 07

date

description

revision

consultants:

prepared by:

Nadine Kashlan

date drawn:

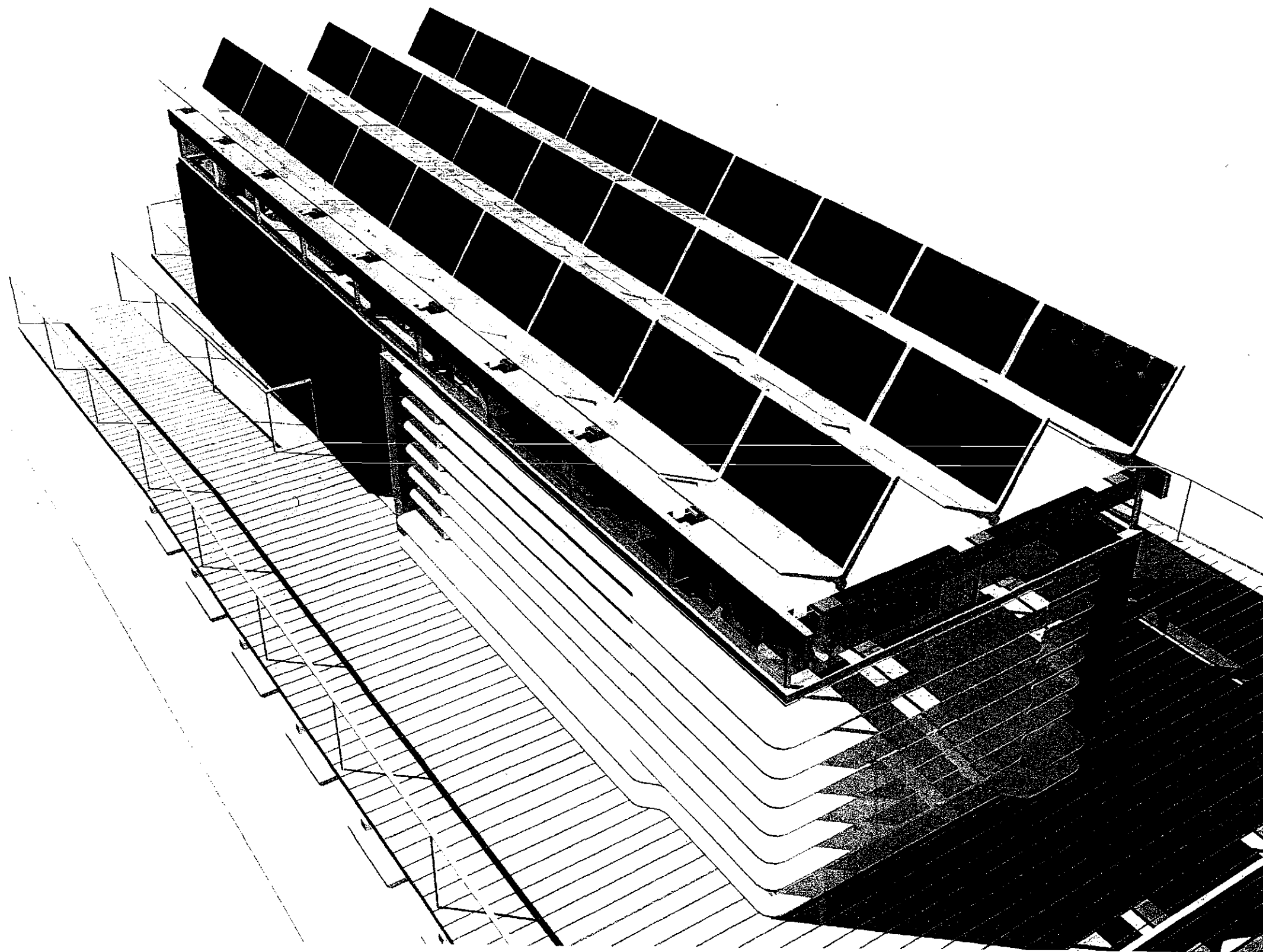
11.27.06



scale: 1/4" : 1' 0"

A.2.4

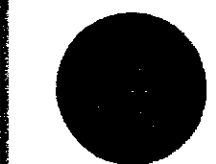
EXTERIOR VIEW : southeast corner



GEORGIA TECH SOLAR DECATHLON 07

revision	description	date

consultants:



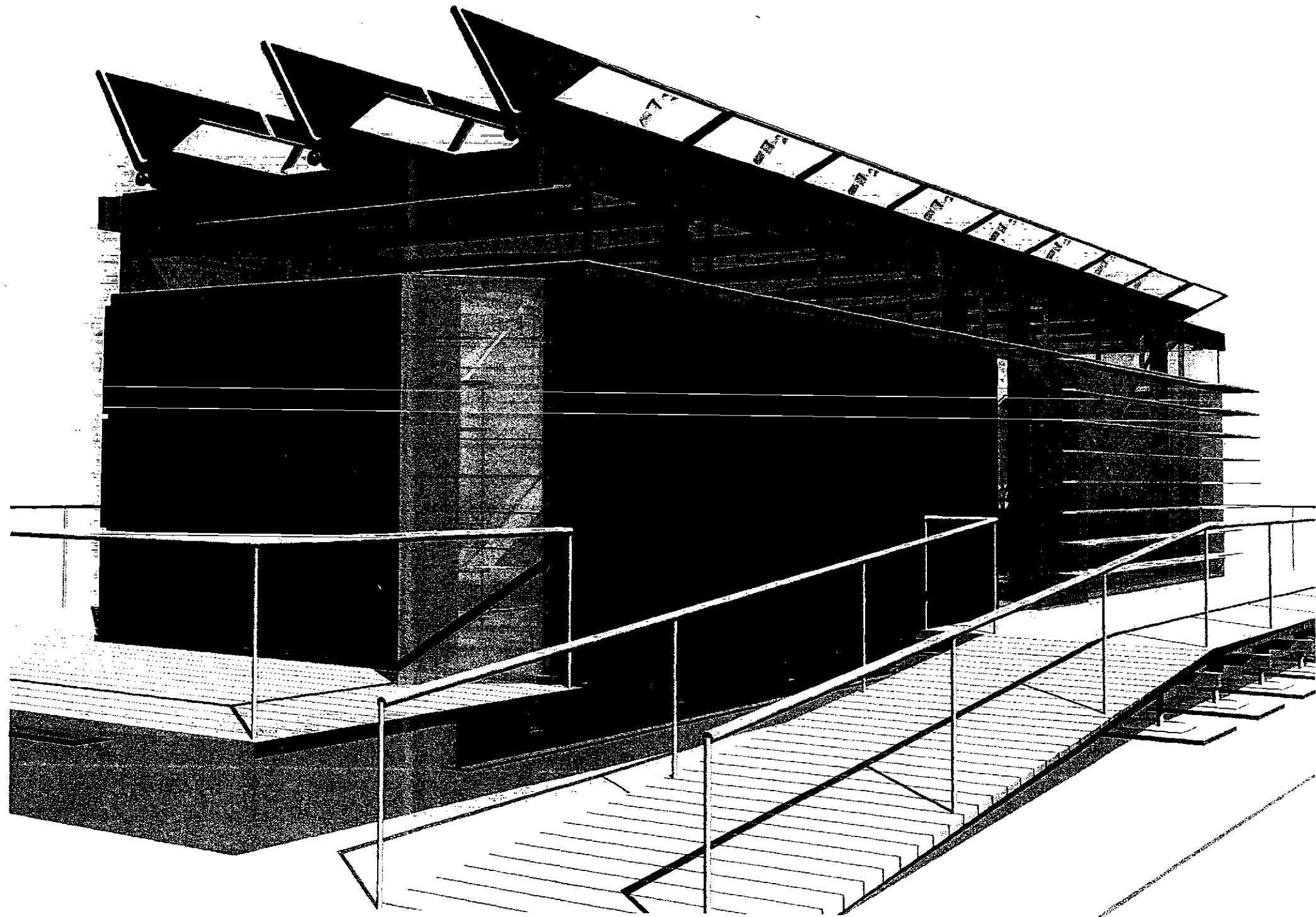
prepared by:
Nadine Kashlan
date drawn:
11.27.06



scale: 1/4" : 1' 0"

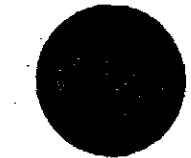
A.2.5

EXTERIOR VIEW : aerial southeast corner



revision	description	date

consultants:



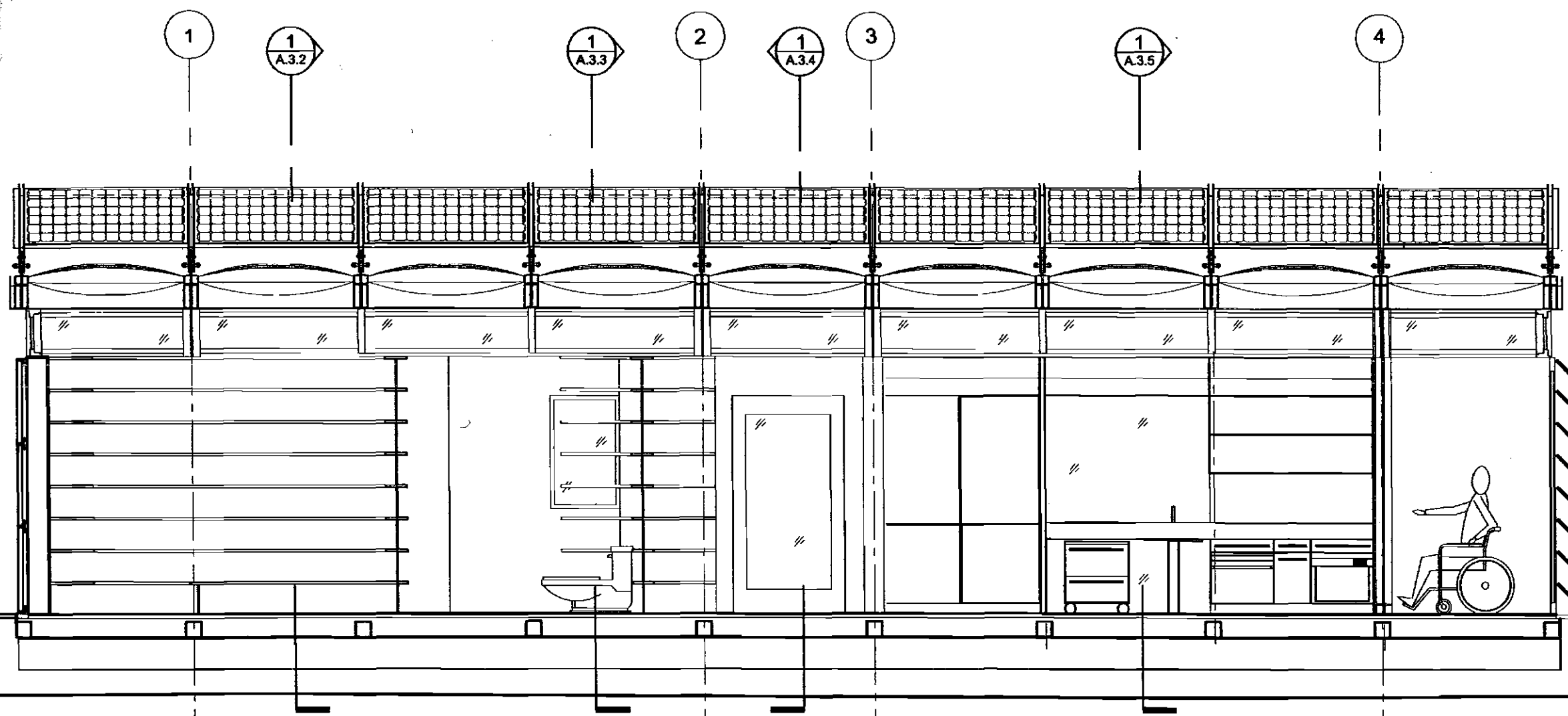
prepared by:
Nadine Keshlan
date drawn:
11.27.06



scale: 1/4" : 1' 0"

A.2.6

EXTERIOR VIEW : southwest corner



date
revision

consultants:

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

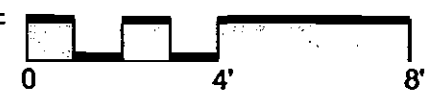
scale: 1/4" : 1' 0"

A.3.0

LONGITUDINAL SECTION

1
A.3.0

LONGITUDINAL SECTION

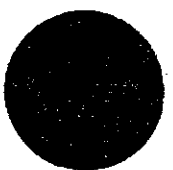


date

description

revision

consultants

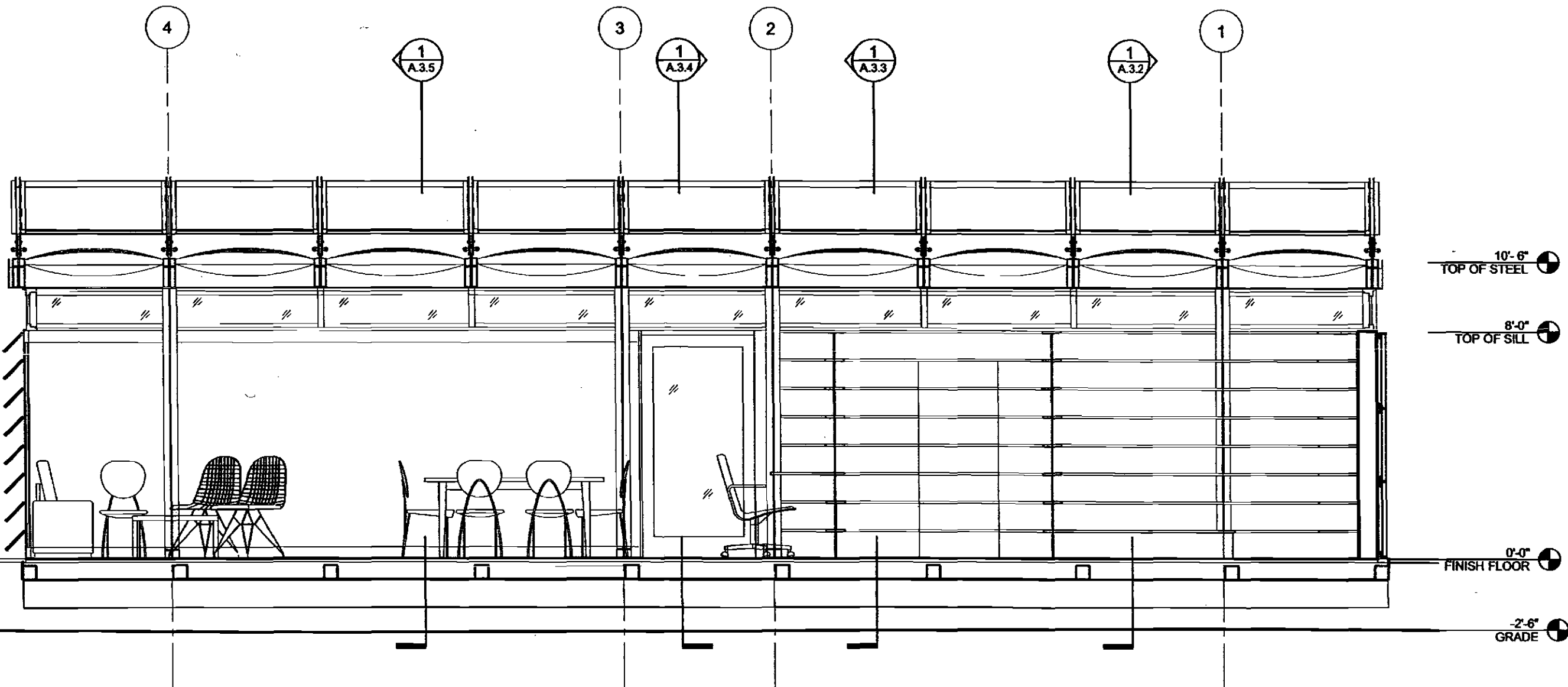


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

scale: 1/4" : 1' 0"

A.3.1

LONGITUDINAL SECTION



10'-6"
TOP OF STEEL

8'-0"
TOP OF SILL

0'-0"
FINISH FLOOR

-2'-6"
GRADE

1
A.3.1
LONGITUDINAL SECTION



date

description

revision

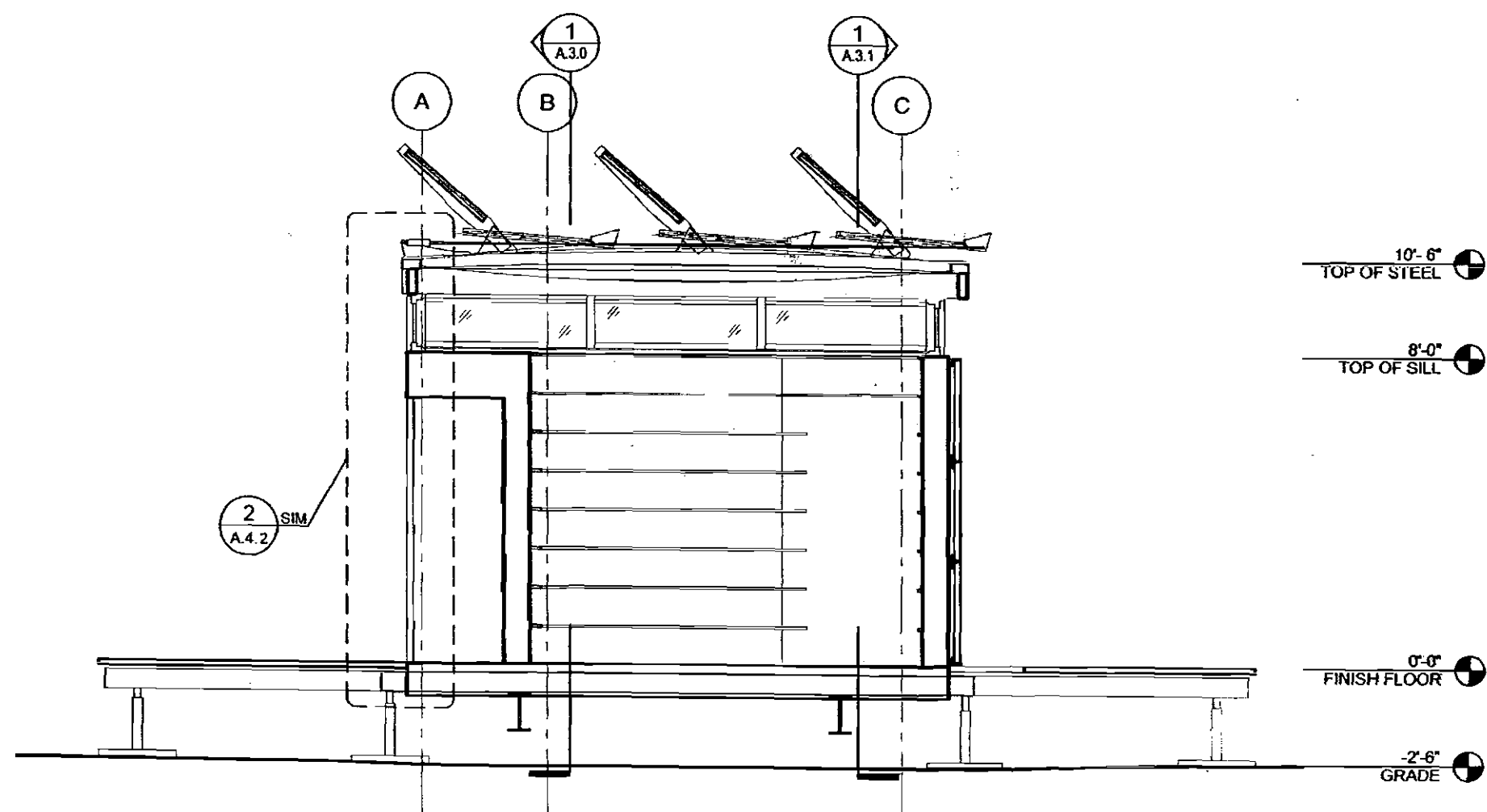
consultants:

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

scale: 1/4" : 1' 0"

A.3.2

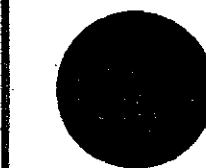
CROSS SECTION



1 CROSS SECTION
A.3.2 LOOKING EAST

date	
description	
revision	

consultants:

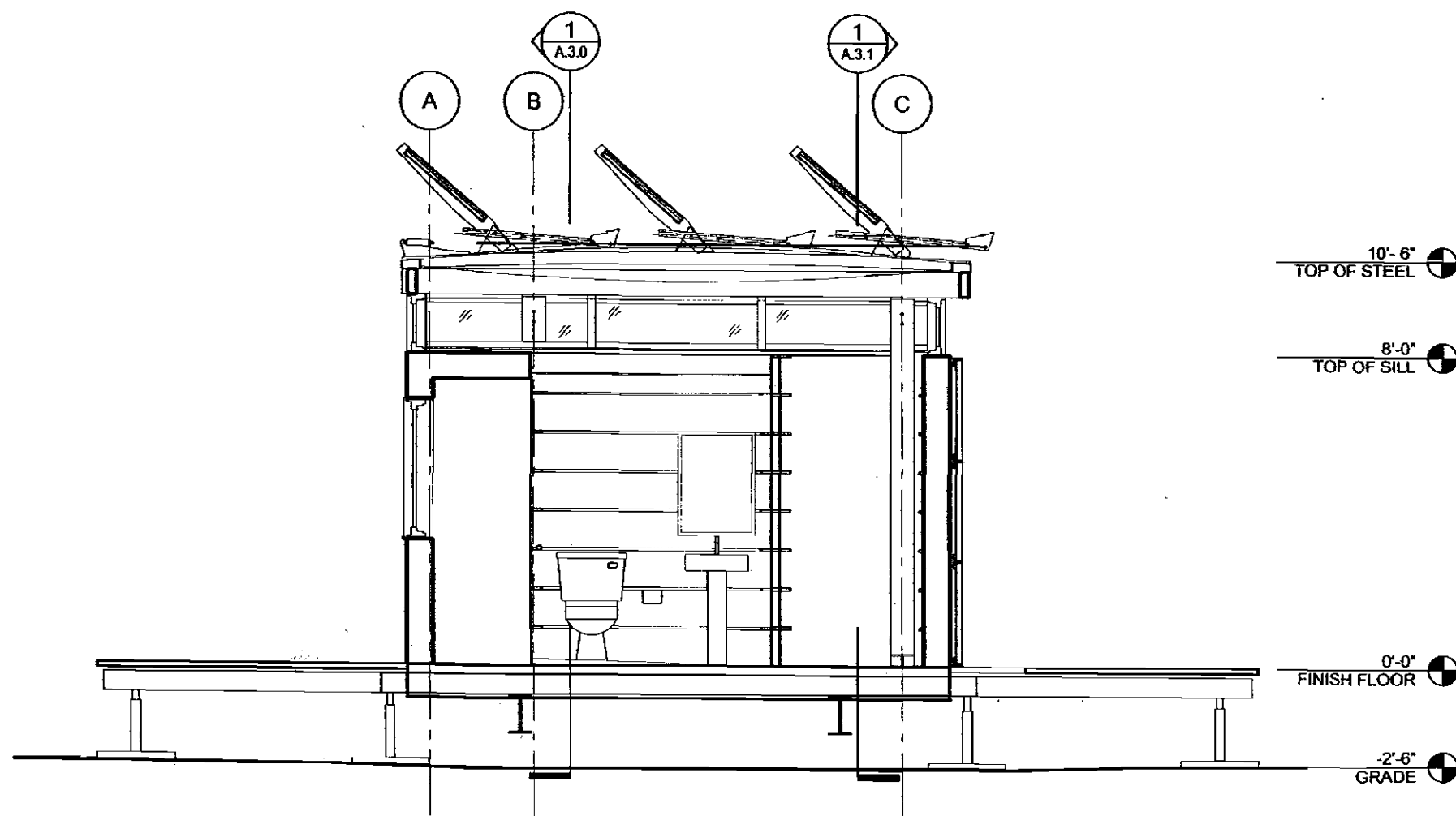


prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

scale: 1/4" : 1' 0"

A.3.3

CROSS SECTION



1 CROSS SECTION
A.3.3 LOOKING EAST

date	
description	
revision	

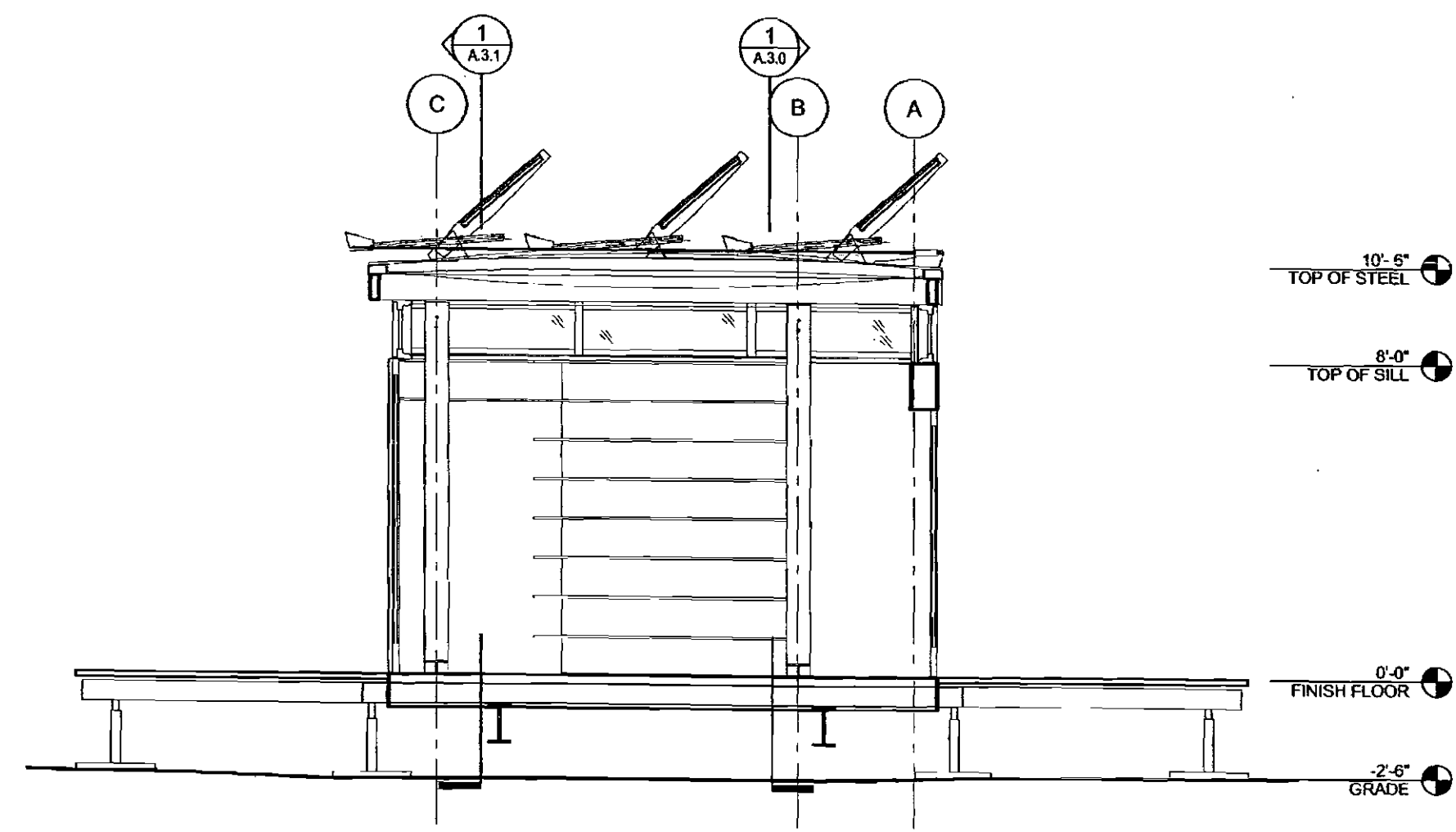
consultants:

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

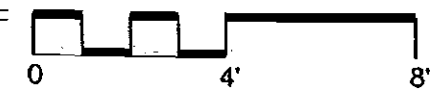
scale: 1/4" : 1' 0"

A.3.4

CROSS SECTION



1 CROSS SECTION
A.3.4 LOOKING WEST



date	
revision	
description	

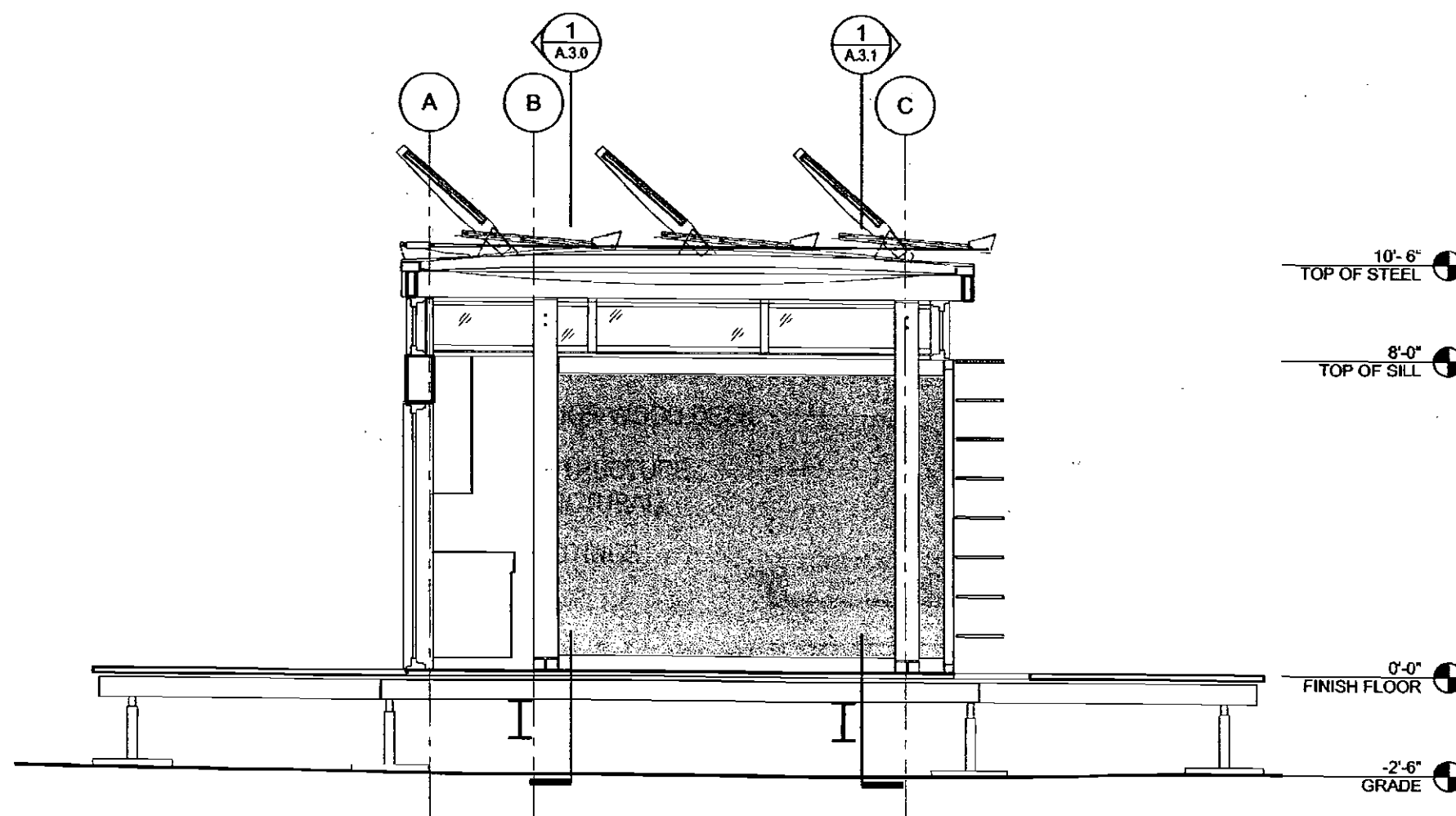
consultants:

prepared by:
C. Luchian
date drawn:
11.25.06
03.03.07

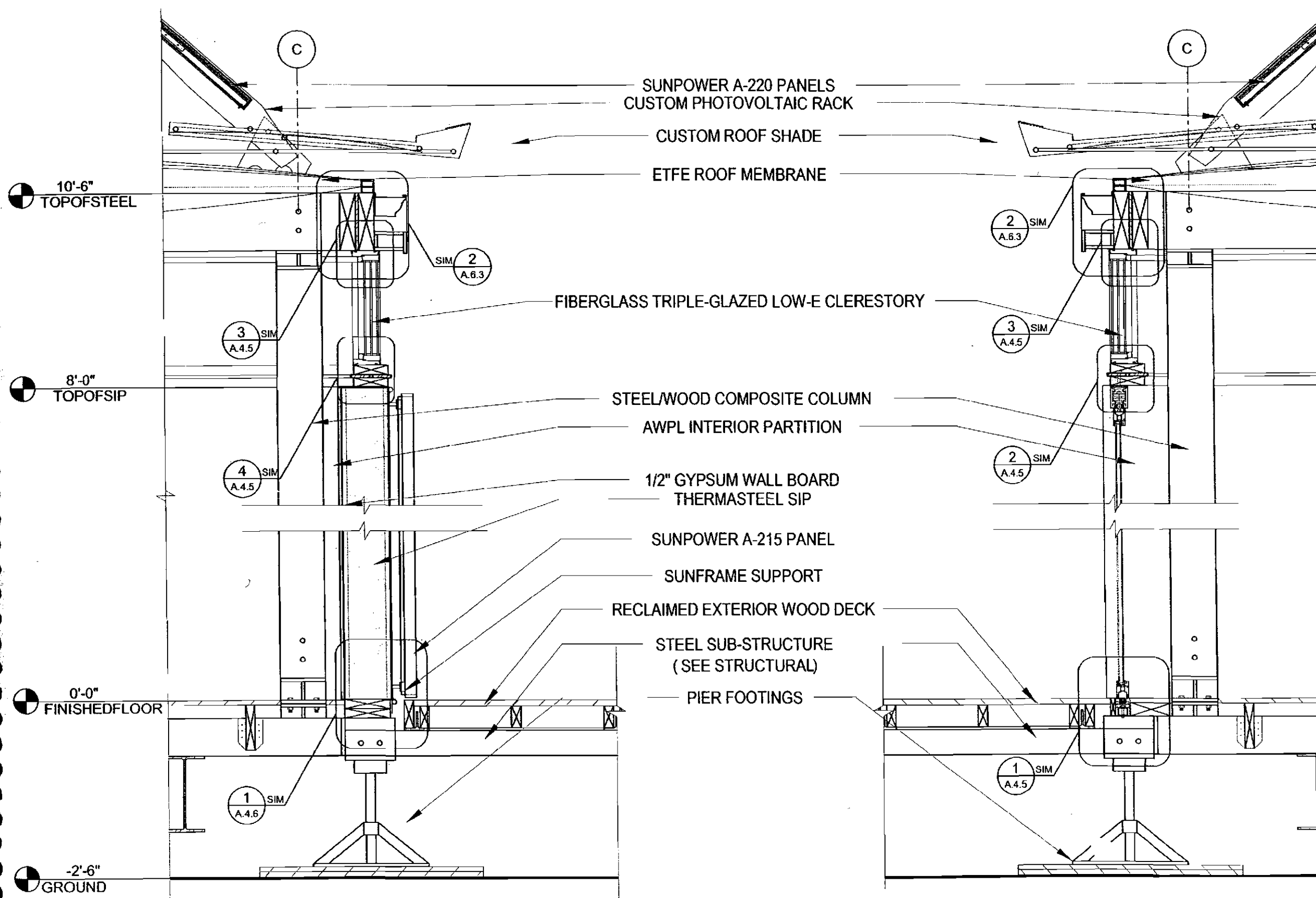
scale: 1/4" : 1' 0"

A.3.5

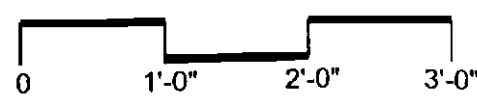
CROSS SECTION



1 CROSS SECTION
A.3.5 LOOKING EAST



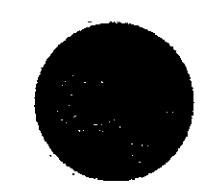
2 SOUTH WALL SECTION
A.4.0 THROUGH THE SIP



1 SOUTH WALL SECTION
A.4.0 THROUGH THE ENTRANCE DOOR

date	
description	
revision	

consultants:

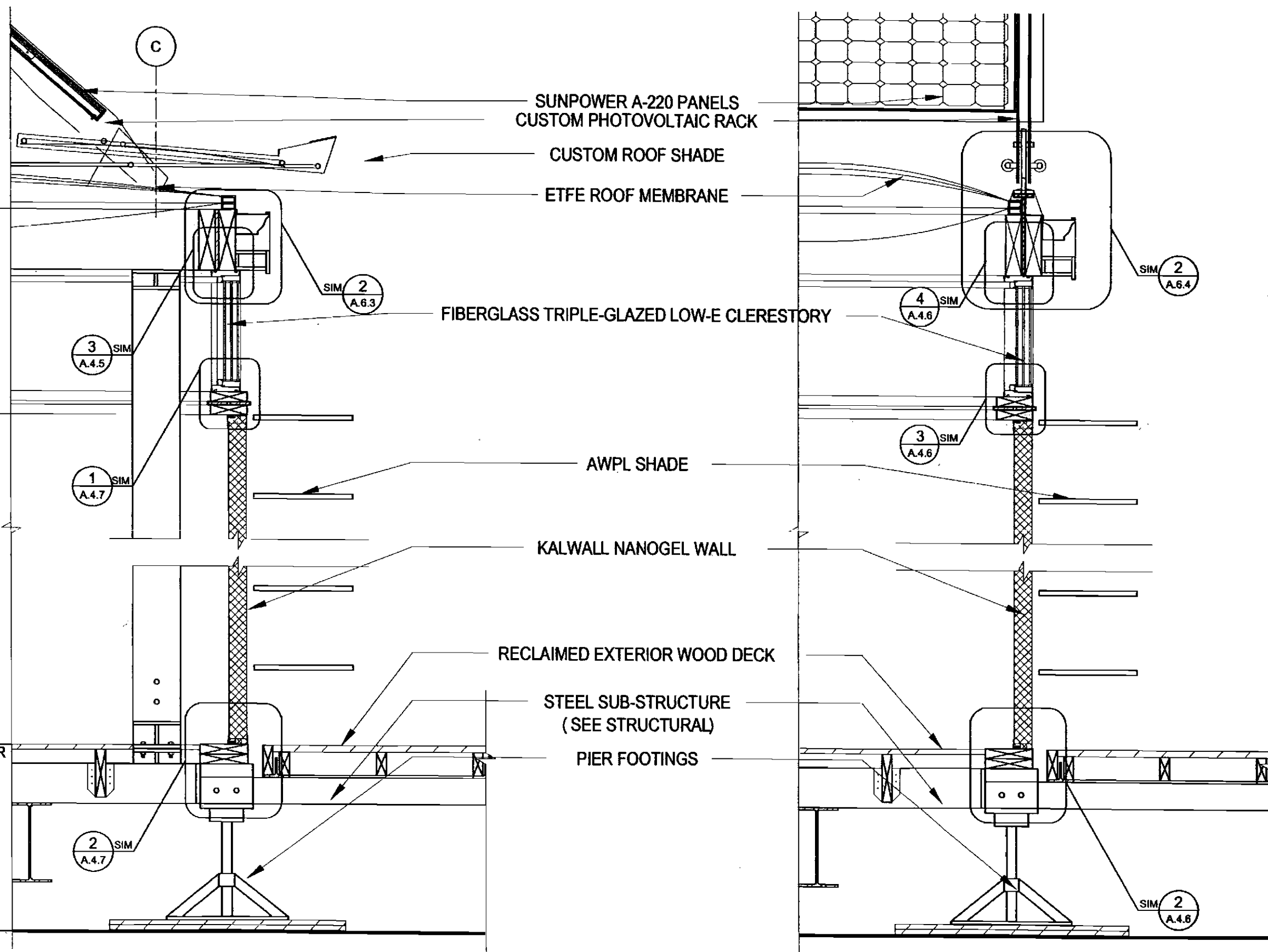


prepared by:
C. Luchian
date drawn:
12.06.06
03.03.07

scale: 3/4" = 1' 0"

A.4.0

SOUTH WALL SECTIONS - SIP & DOOR



2 SOUTH WALL SECTION
A.4.1 THROUGH THE KALWALL

1 EAST WALL SECTION
A.4.1 THROUGH THE KALWALL

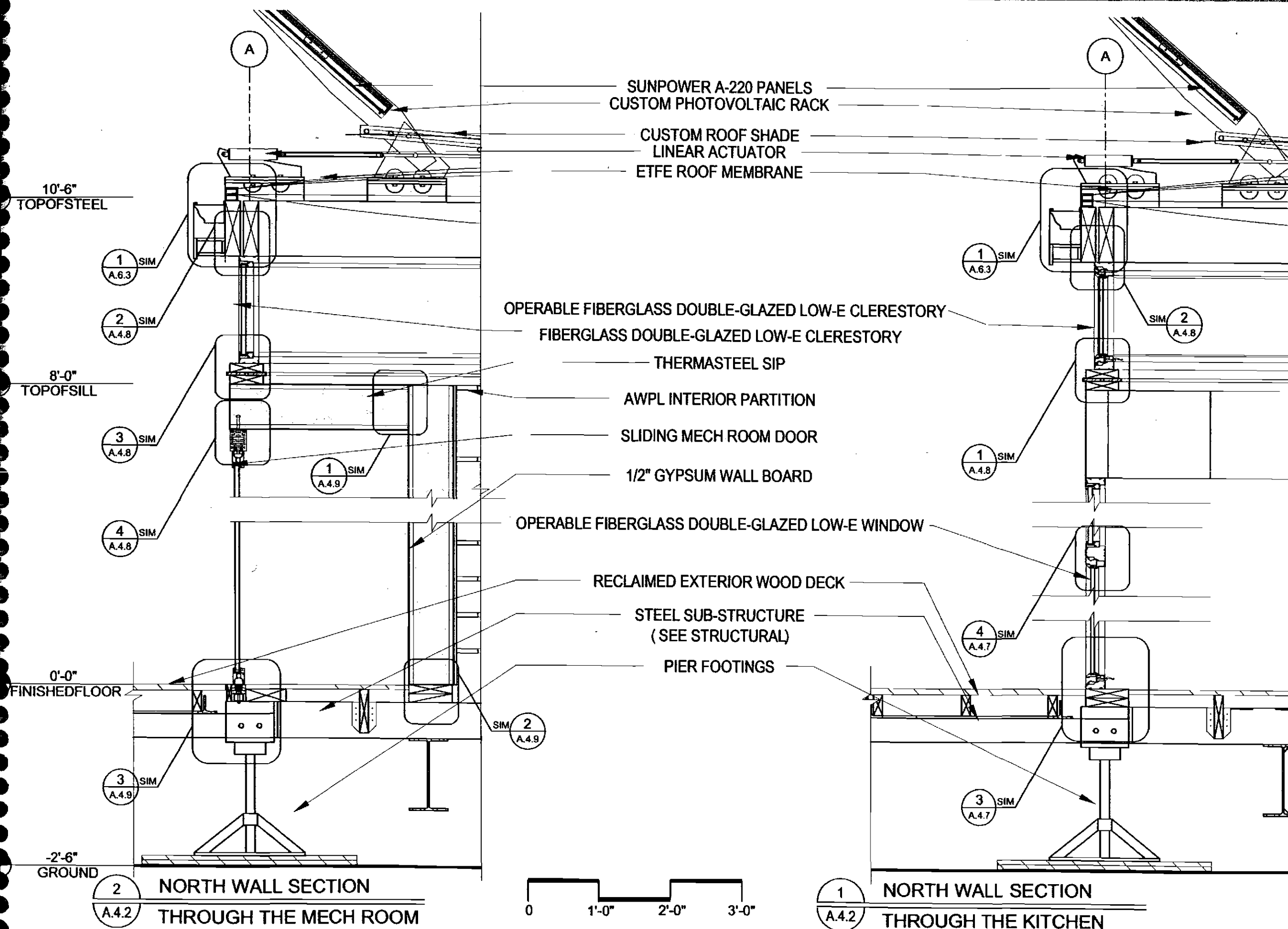
date	
description	
revision	

consultants:

prepared by:
C. Luchian
date drawn:
12.06.06
03.03.07

scale: 3/4" = 1' 0"

A.4.1



date	
description	
revision	

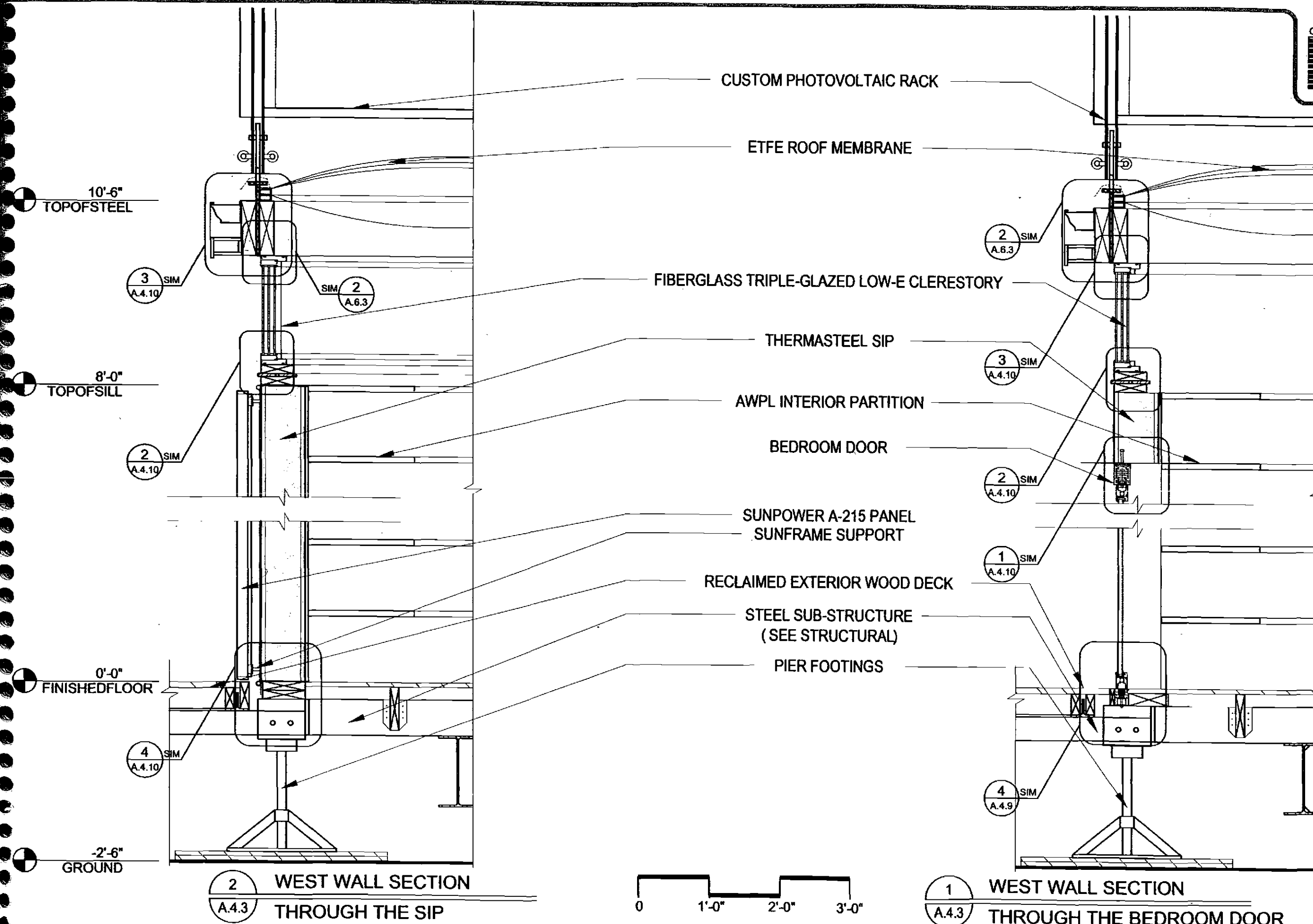
consultants:

prepared by:
David Lott
date drawn:
03.06.07

scale: 3/4" = 1' 0"

A.4.2

NORTH WALL SECTION - MECH & KITCHEN



2 WEST WALL SECTION
A.4.3 THROUGH THE SIP

1 WEST WALL SECTION
A.4.3 THROUGH THE BEDROOM DOOR

date	
description	
revision	

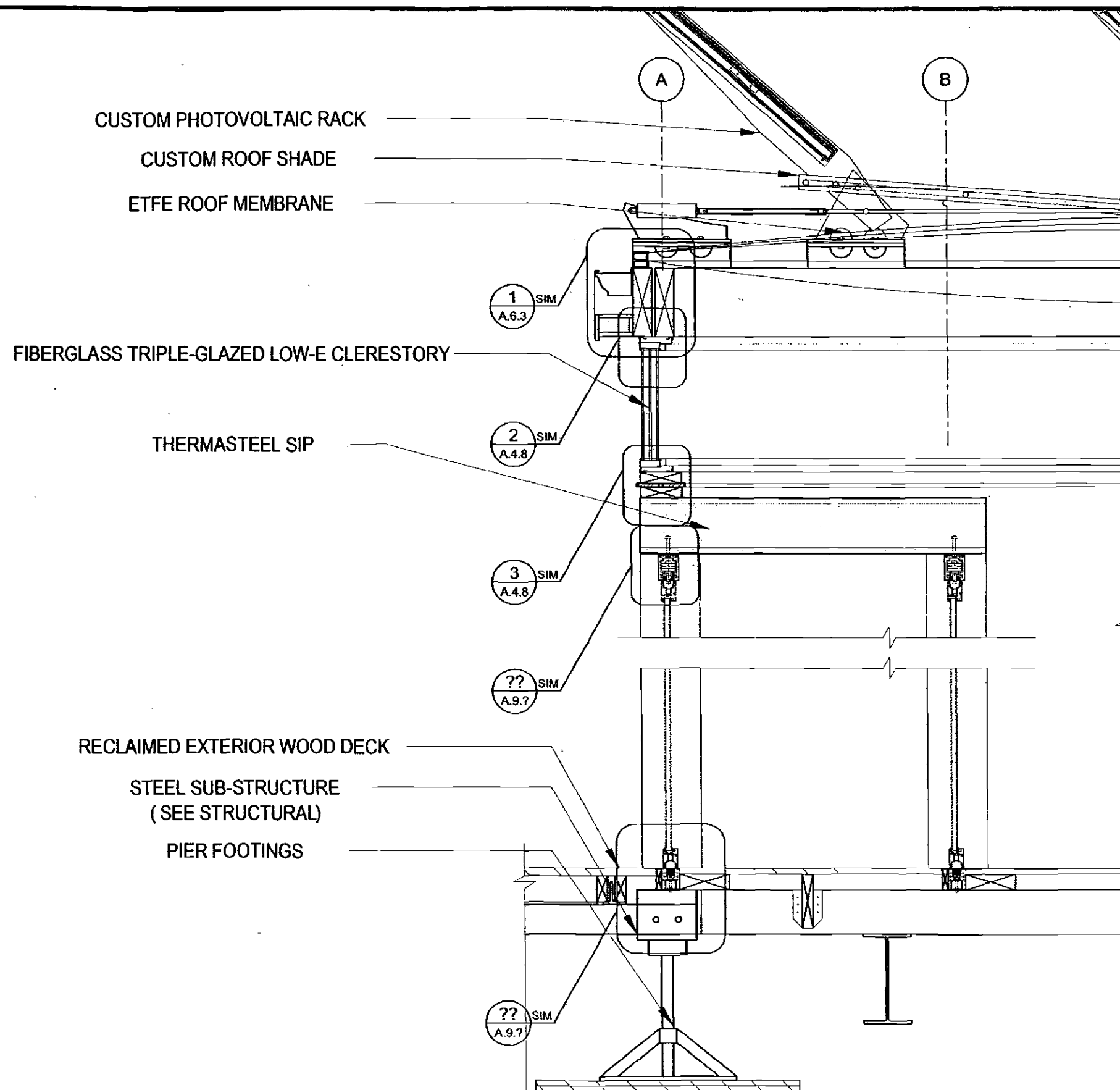
consultants:	

prepared by:
C. Luchlan
date drawn:
11.15.06
03.03.07

scale: 3/4" = 1' 0"

A.4.3

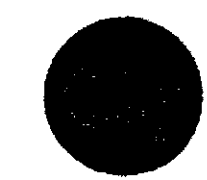
WEST WALL SECTIONS - SIP & DOOR



1 NORTH WALL SECTION
A.4.4 THROUGH AIRLOCK

date	description	revision

consultants:

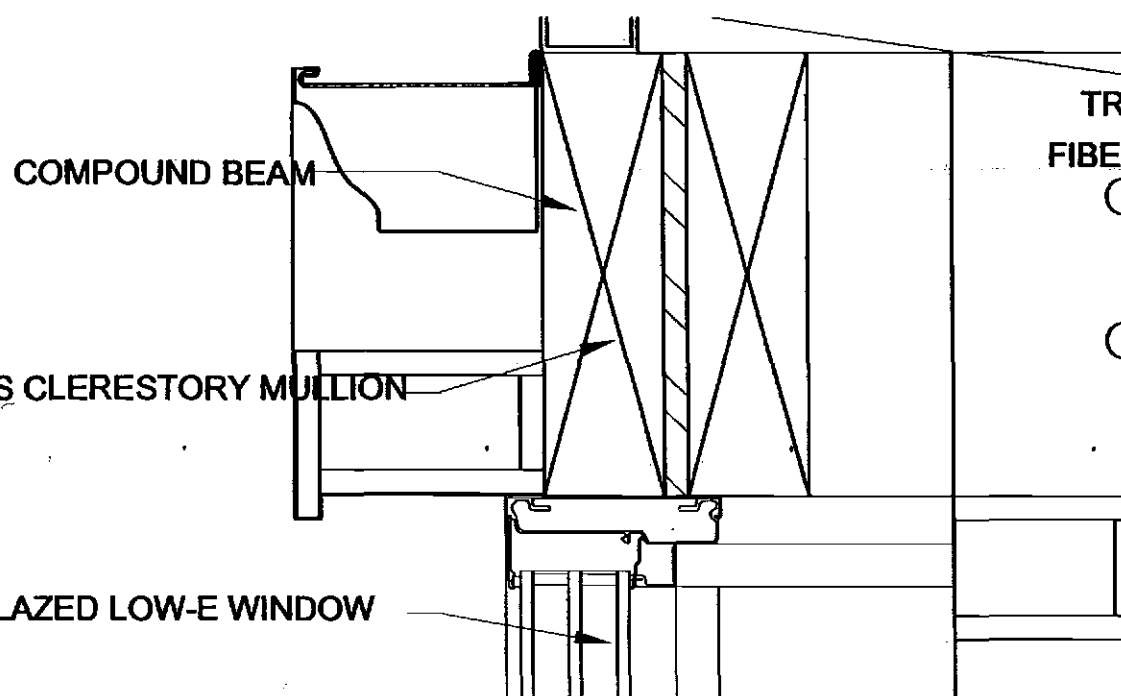


prepared by:
C. Luchian
date drawn:
11.15.06
03.03.07

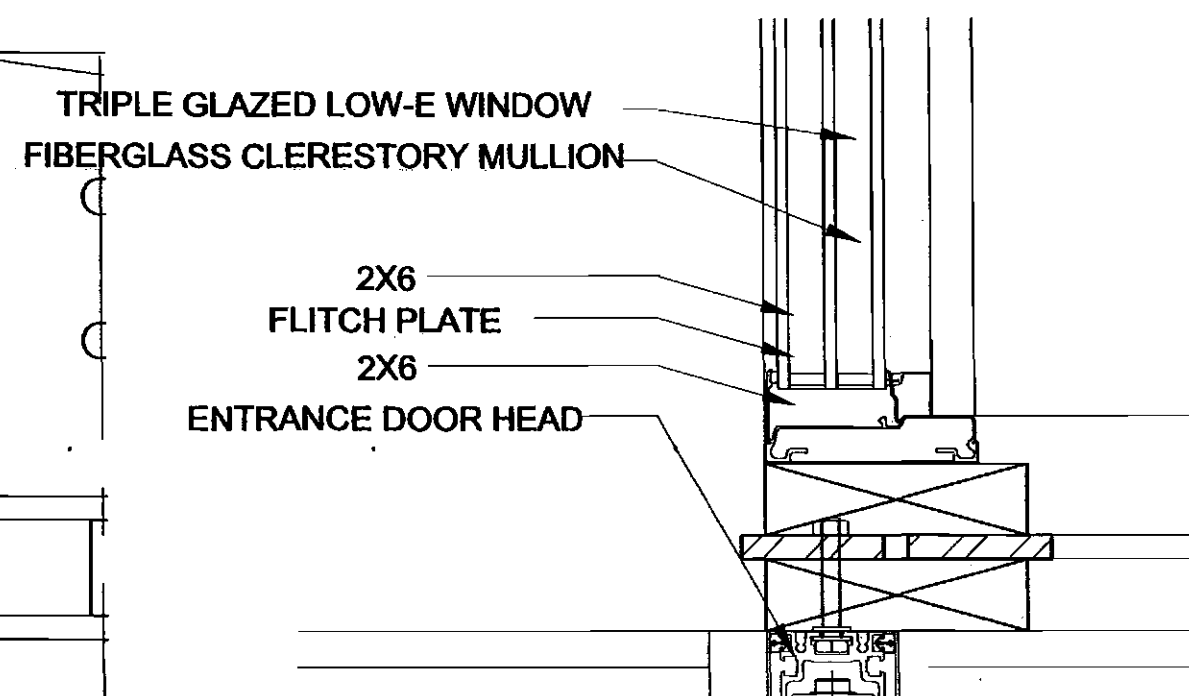
scale: 3/4" = 1' 0"

A.4.4

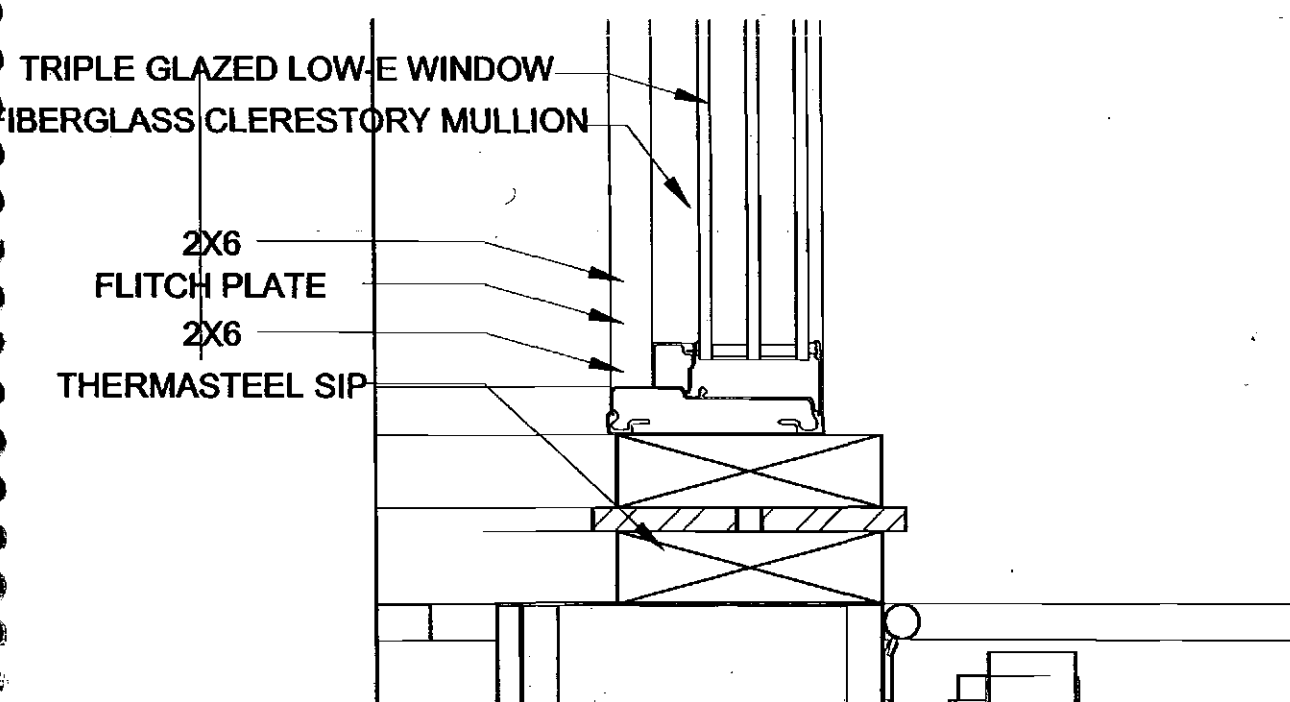
NORTH WALL SECTION - AIRCHASE



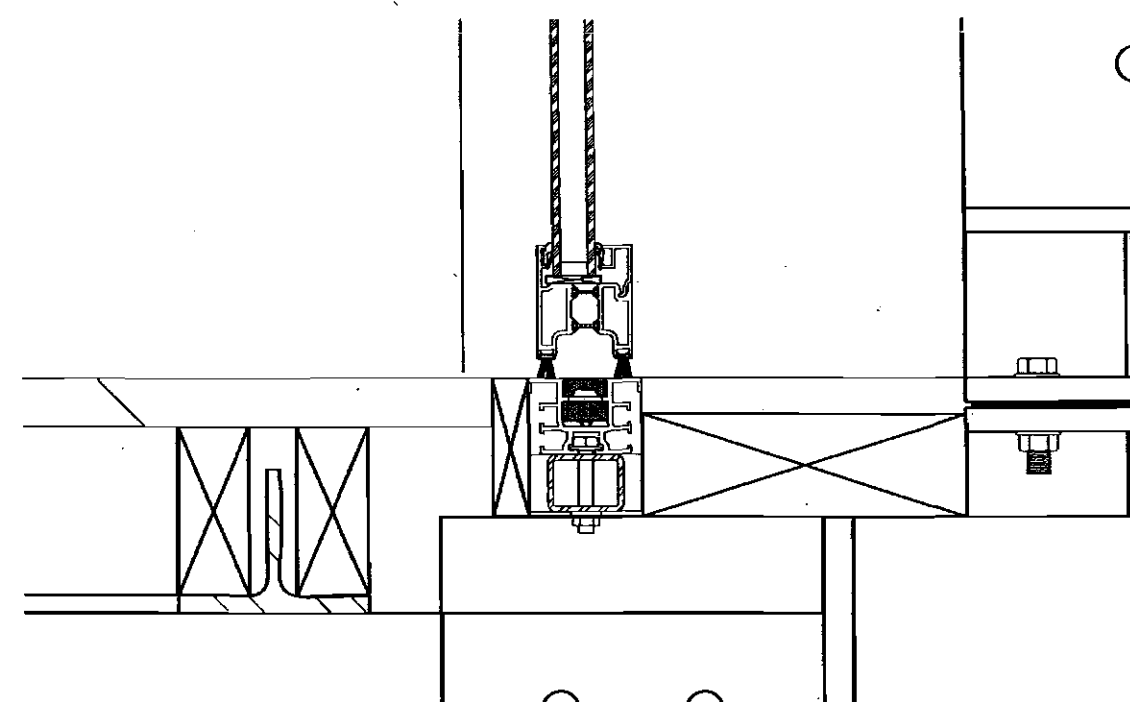
3 SOUTH CLERESTORY/SOFFIT
A.4.5 CONNECTION DETAIL



2 SOUTH DOOR HEAD/CLERESTORY
A.4.5 CONNECTION DETAIL



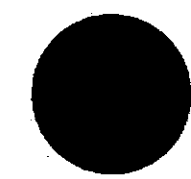
4 SOUTH SIP HEAD/CLERESTORY
A.4.5 CONNECTION DETAIL



1 SOUTH DOOR
A.4.5 THRESHOLD DETAIL

date	
description	
revision	

consultants:



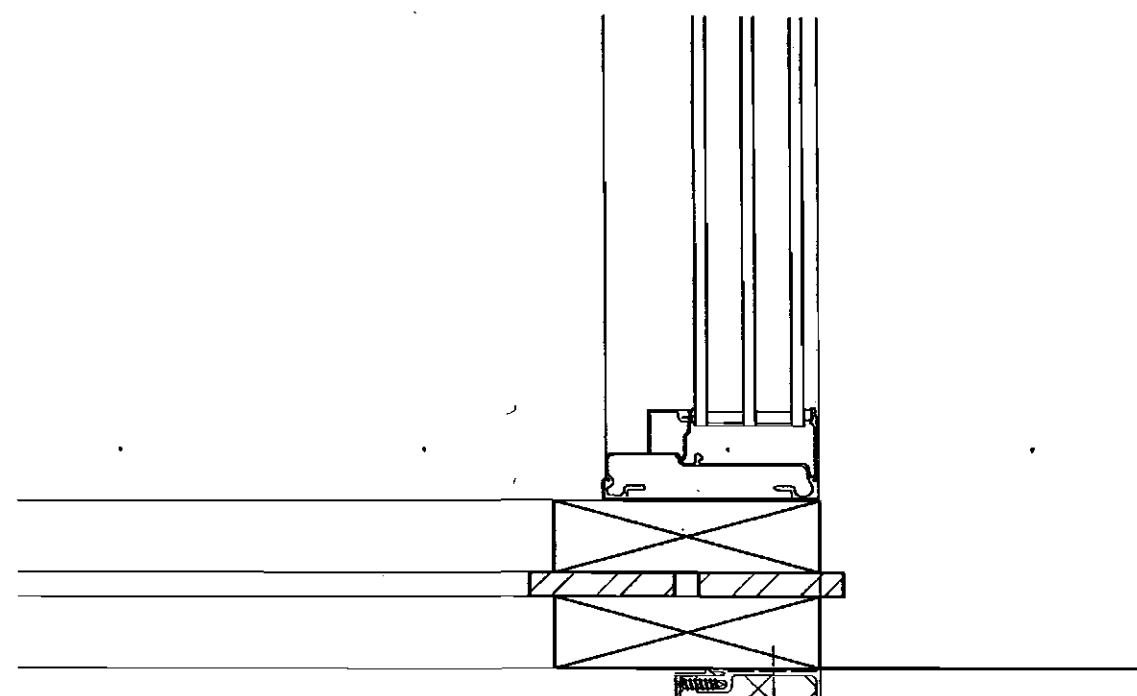
prepared by:
Robert Diamond
date drawn:
11.15.06



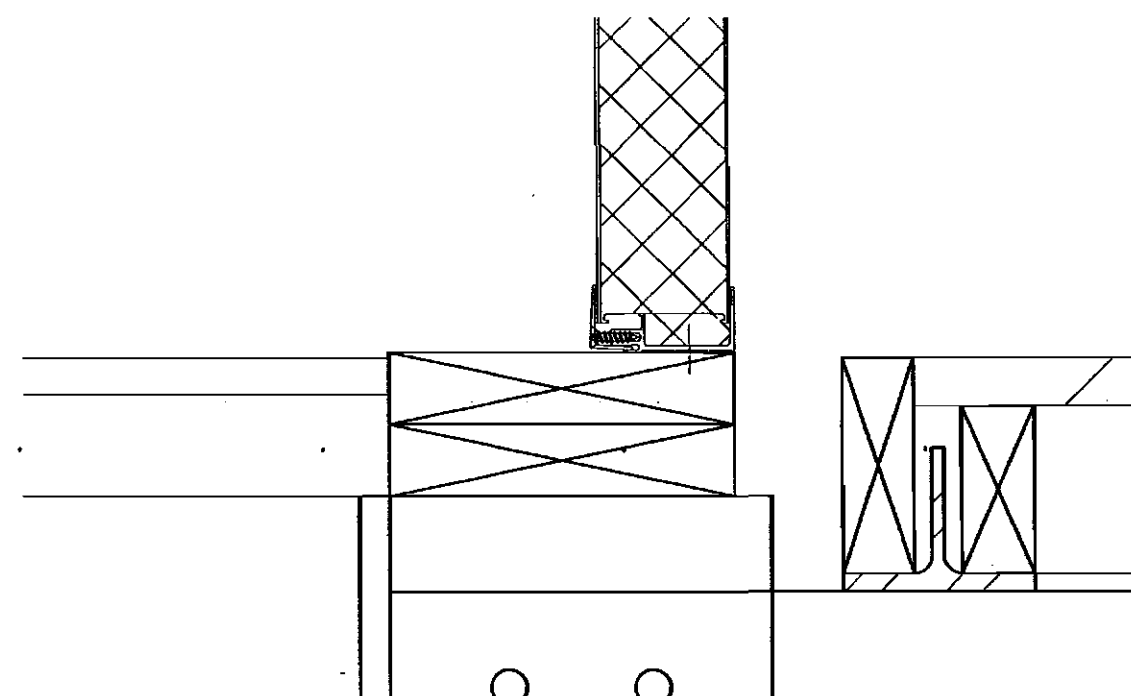
scale: 3" = 1' 0"

A.4.5

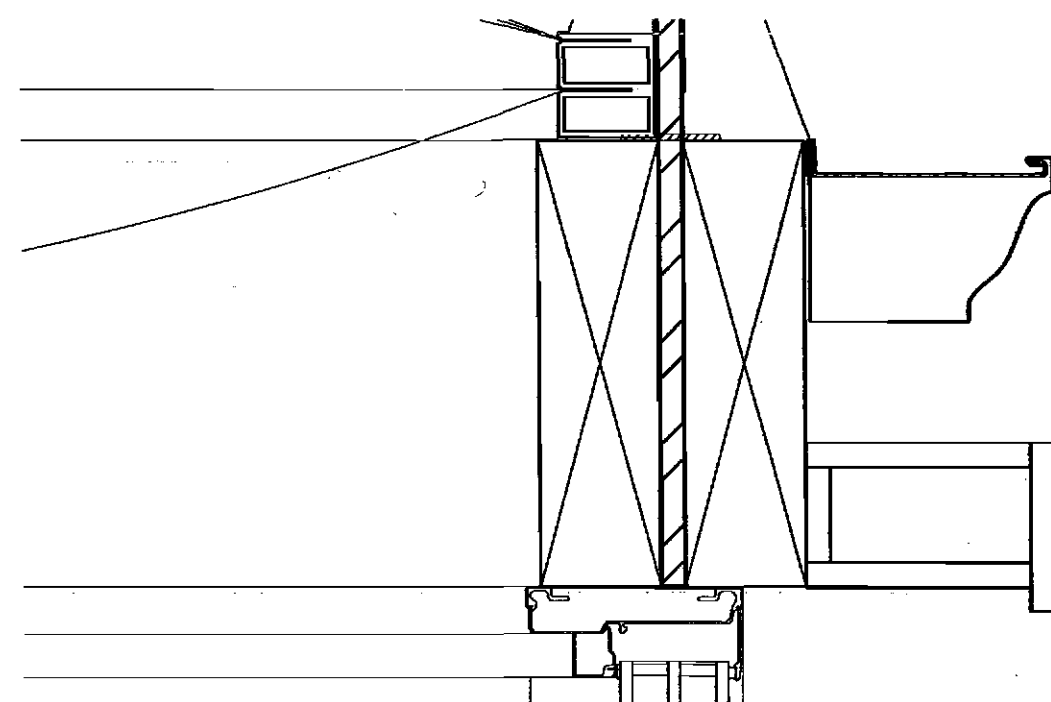
SECTION DETAILS - CONNECTIONS



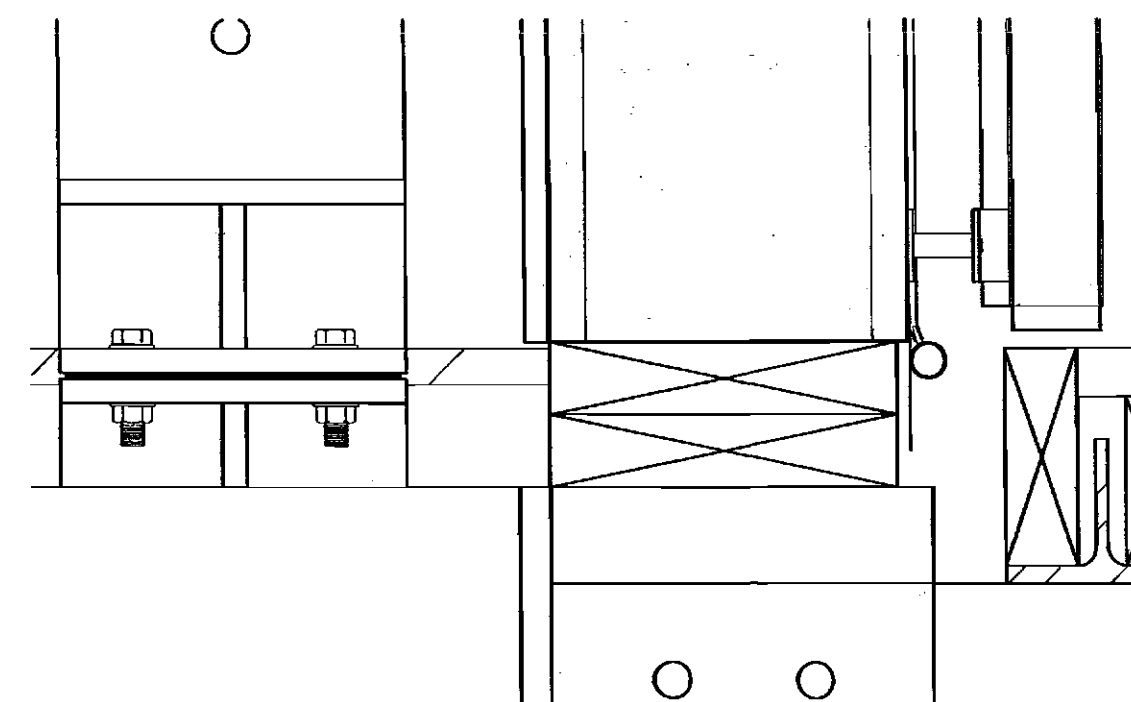
3 EAST KALWALL TO CLERESTORY
A.4.6 CONNECTION DETAIL



2 EAST KALWALL TO FLOOR
A.4.6 CONNECTION DETAIL



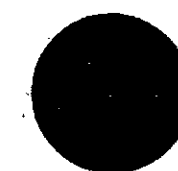
4 EAST CLERESTORY TO SOFFIT
A.4.6 CONNECTION DETAIL



1 SOUTH SIP TO FLOOR
A.4.6 CONNECTION DETAIL

date	
revision	
description	

consultants:



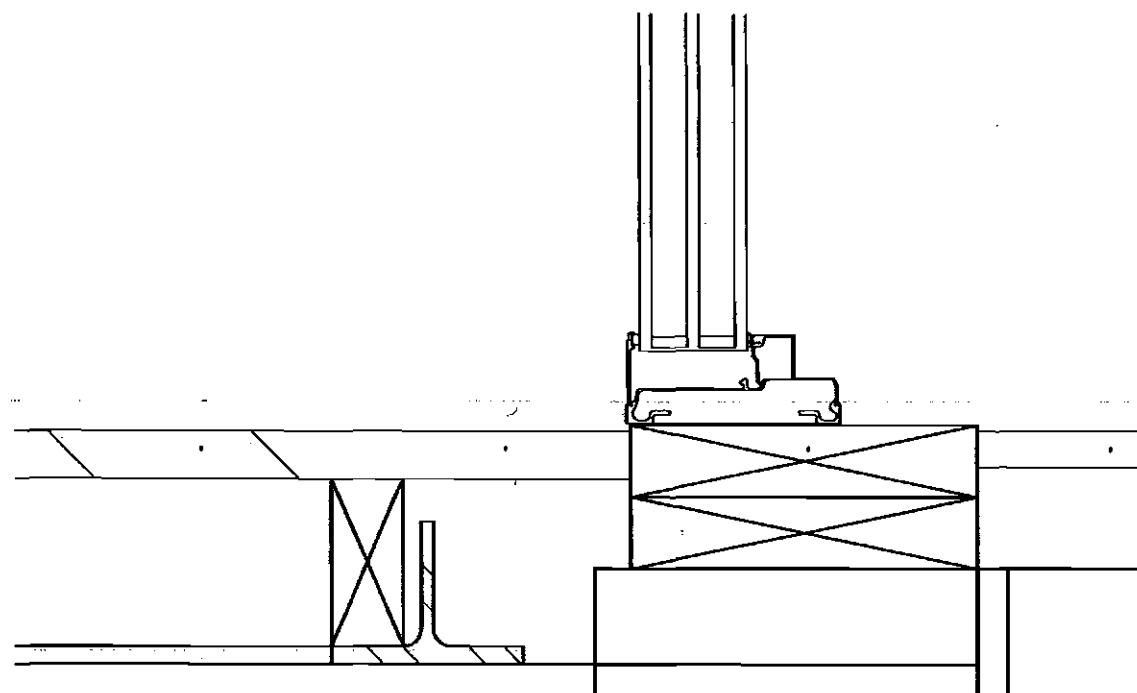
prepared by:
Robert Diamond
date drawn:
11.15.06



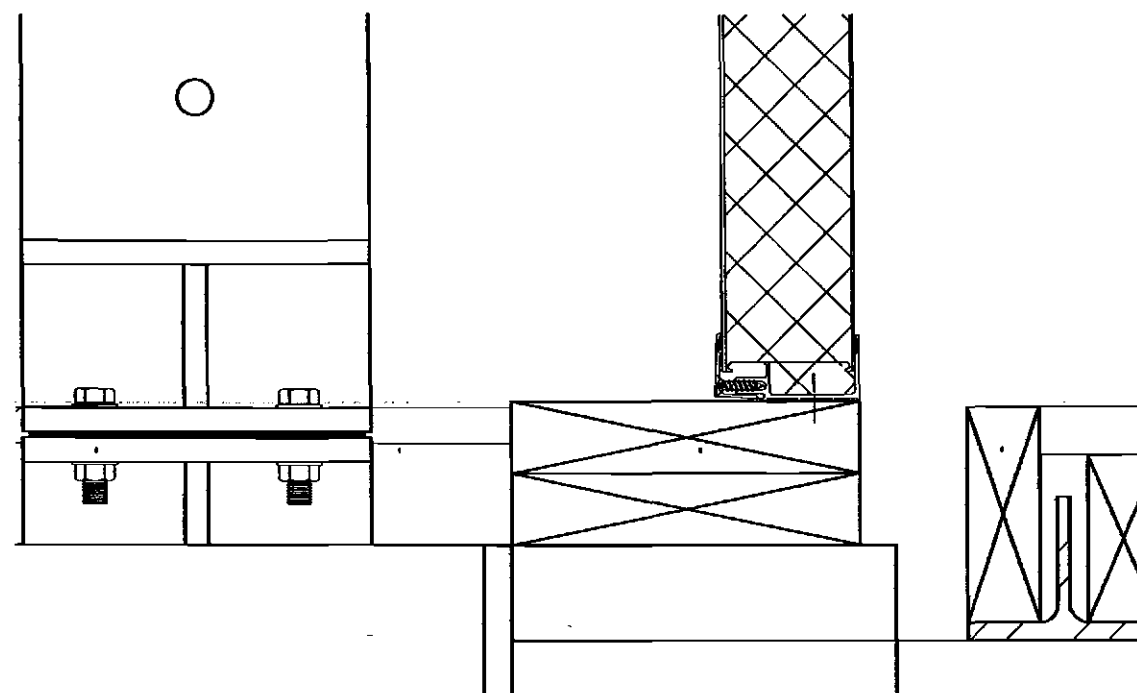
scale: 3" = 1' 0"

A.4.6

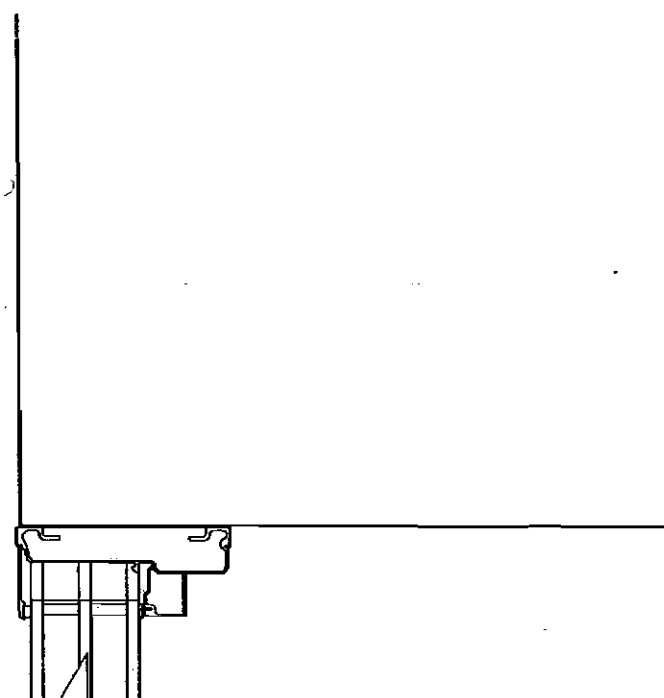
SECTION DETAILS - CONNECTIONS



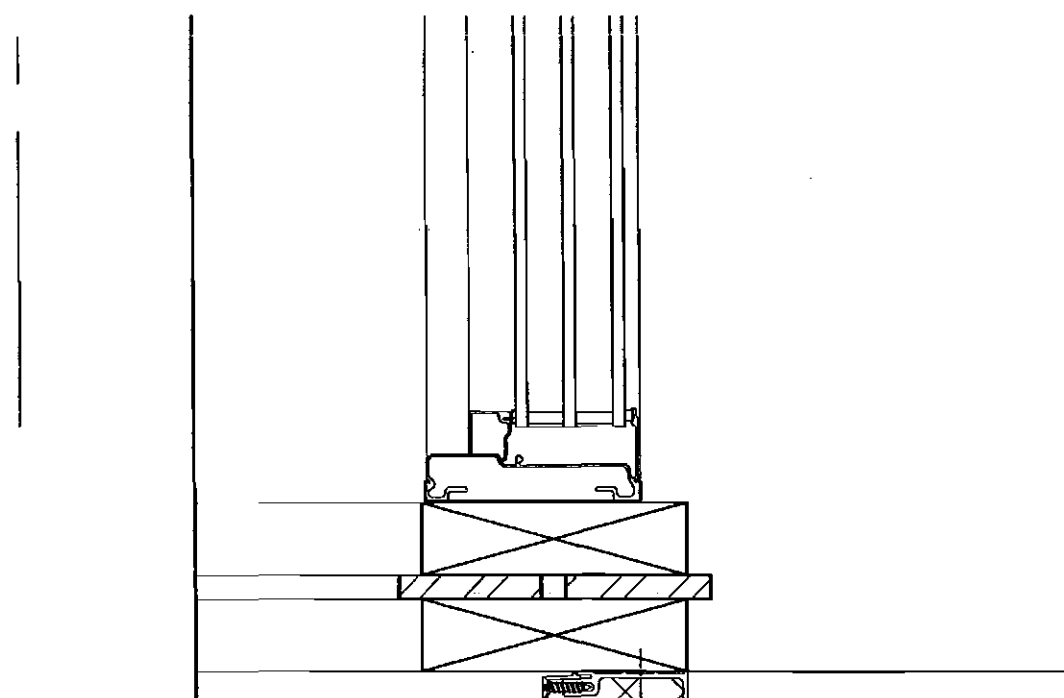
3 NORTH KITCHEN WINDOW TO FLOOR
A4.7 CONNECTION DETAIL



2 SOUTH KALWALL TO FLOOR
A4.7 CONNECTION DETAIL



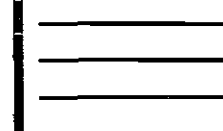
4 NORTH KITCHEN WINDOW TO CHASE
A4.7 CONNECTION DETAIL



1 SOUTH CLERESTORY TO KALWALL
A4.7 CONNECTION DETAIL

date	
description	
revision	

consultants:



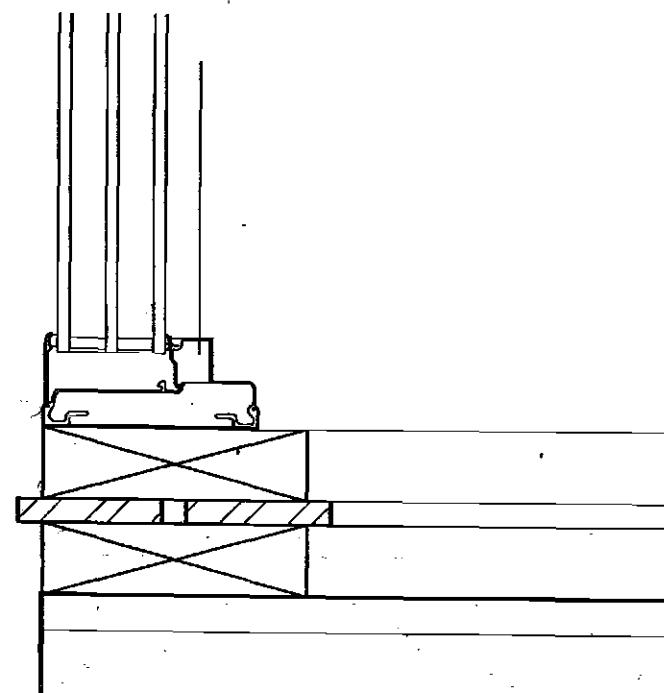
prepared by:
Robert Diamond
date drawn:
11.15.06



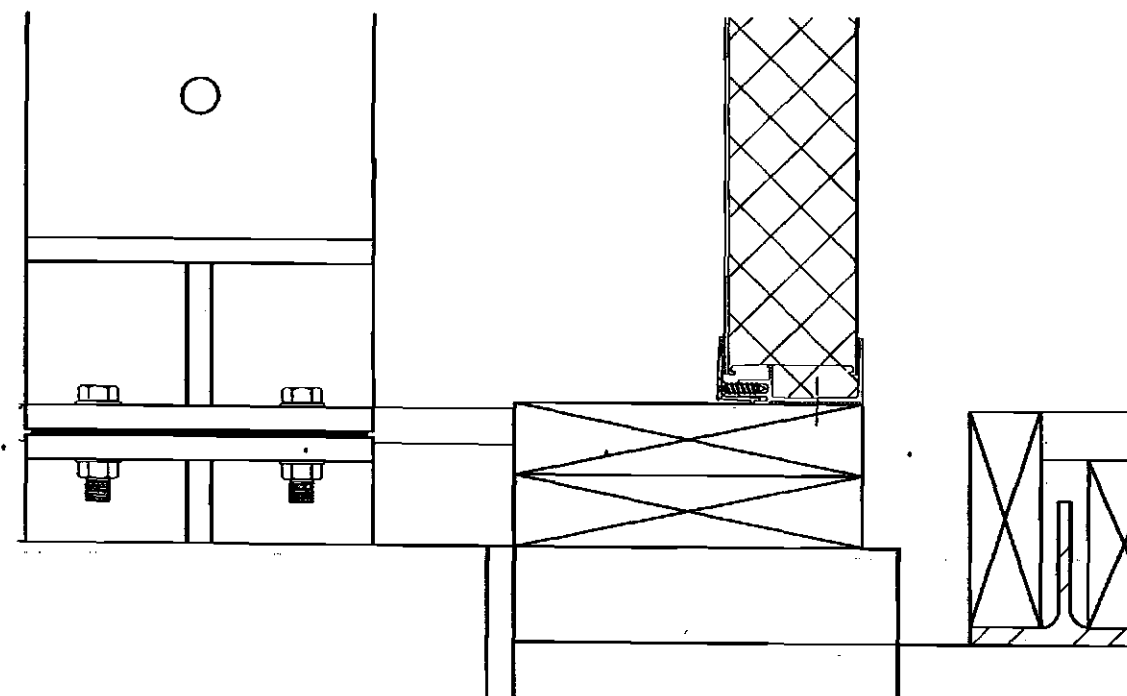
scale: 3" = 1' 0"

A.4.7

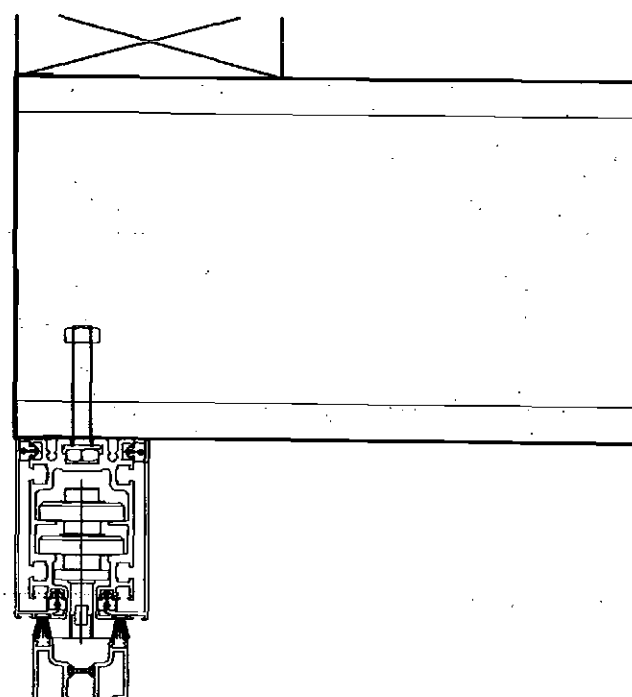
SECTION DETAILS - CONNECTIONS



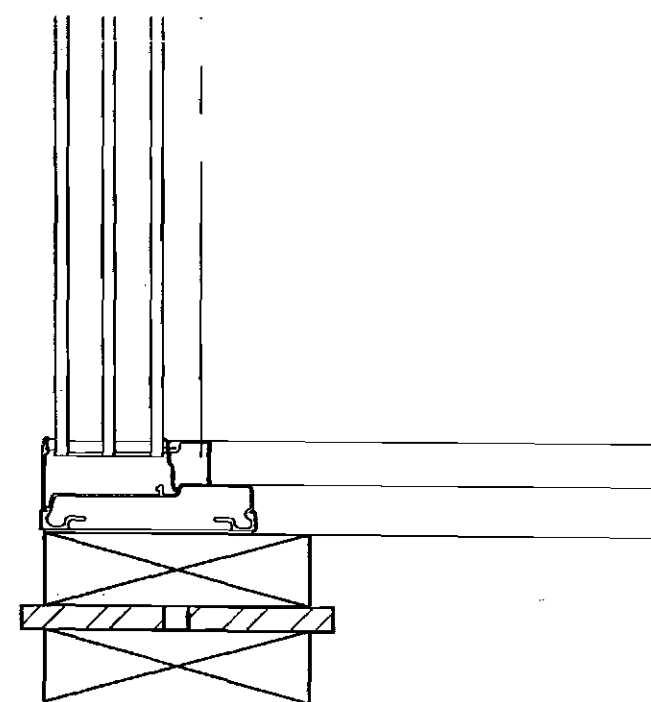
3 NORTH CLERESTORY TO SIP
A.4.8 CONNECTION DETAIL



2 NORTH CLERESTORY TO SOFFIT
A.4.8 CONNECTION DETAIL



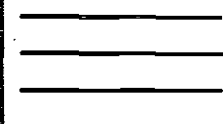
4 NORTH MECH DOOR HEAD TO SIP
A.4.8 CONNECTION DETAIL



1 NORTH CHASE TO CLERESTORY
A.4.8 CONNECTION DETAIL

date	
revision	
description	

consultants:



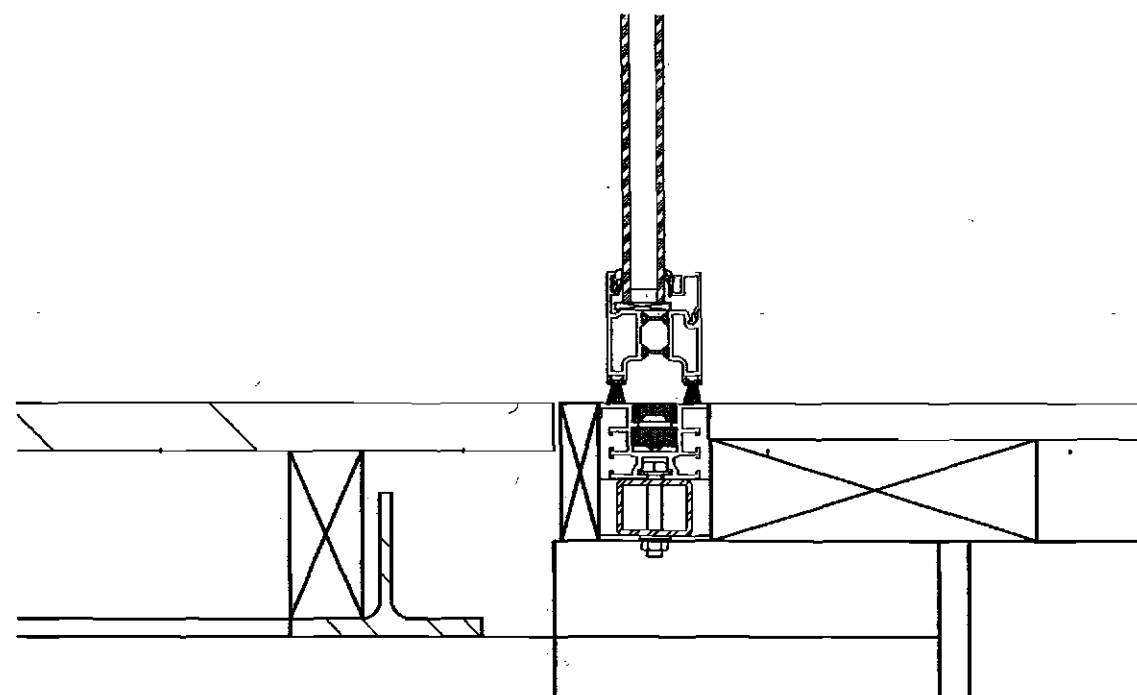
prepared by:
Robert Diamond
date drawn:
11.15.06



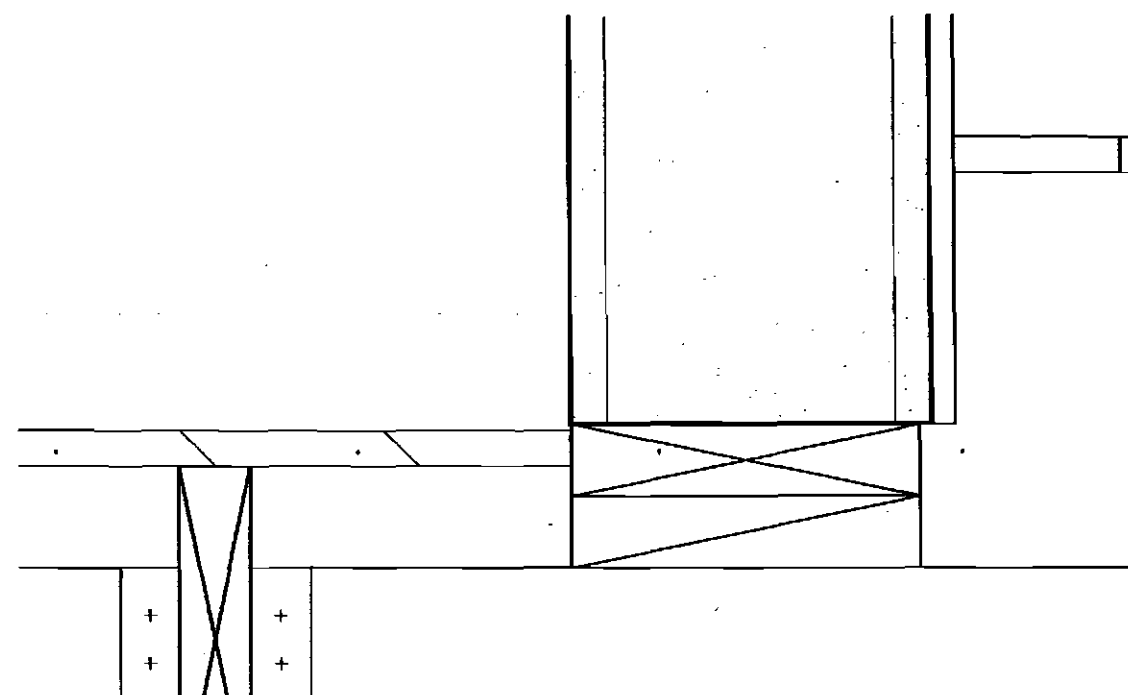
scale: 3" = 1' 0"

A.4.8

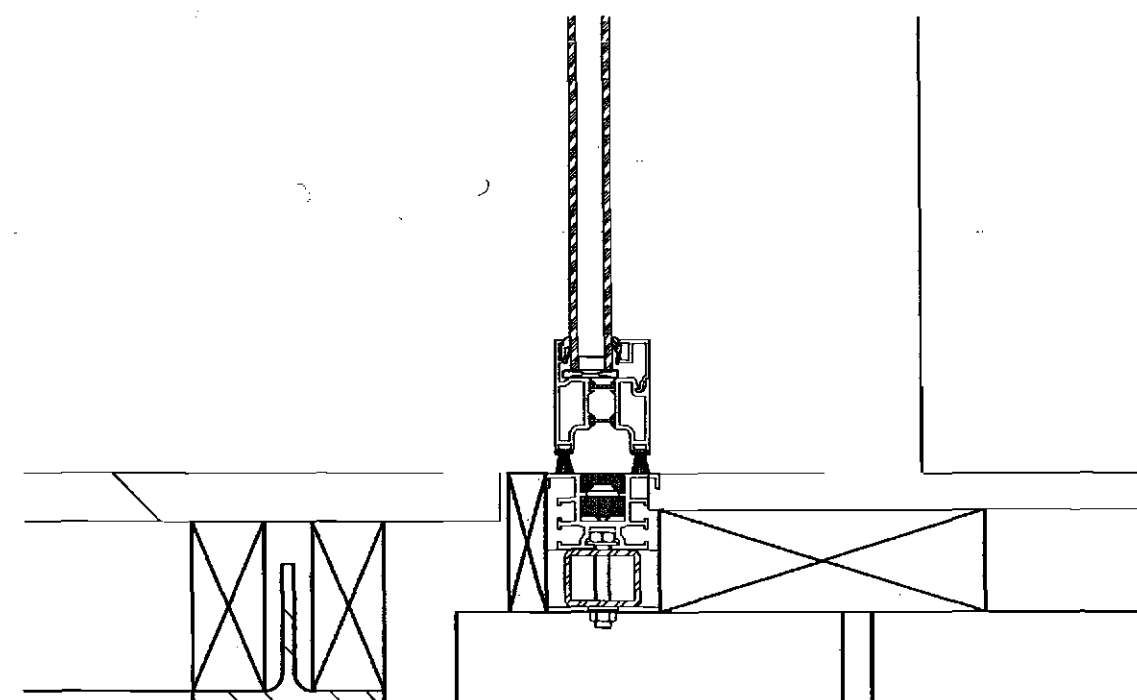
SECTION DETAILS - CONNECTIONS



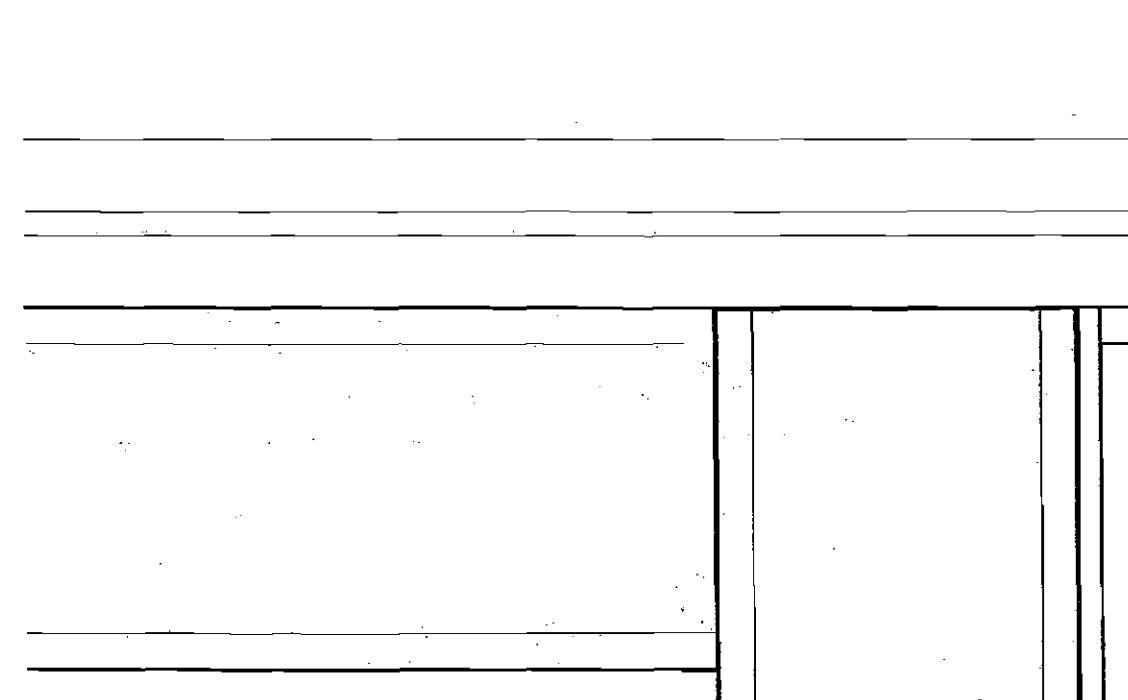
3 MECH ROOM DOOR
A4.9 THRESHOLD DETAIL



2 NORTH SIP TO FLOOR
A4.9 CONNECTION DETAIL



4 WEST BEDROOM DOOR
A4.9 THRESHOLD DETAIL



1 NORTH WALL TO ROOF SIP TO SIP
A4.9 CONNECTION DETAIL

date	revision	description

consultants:

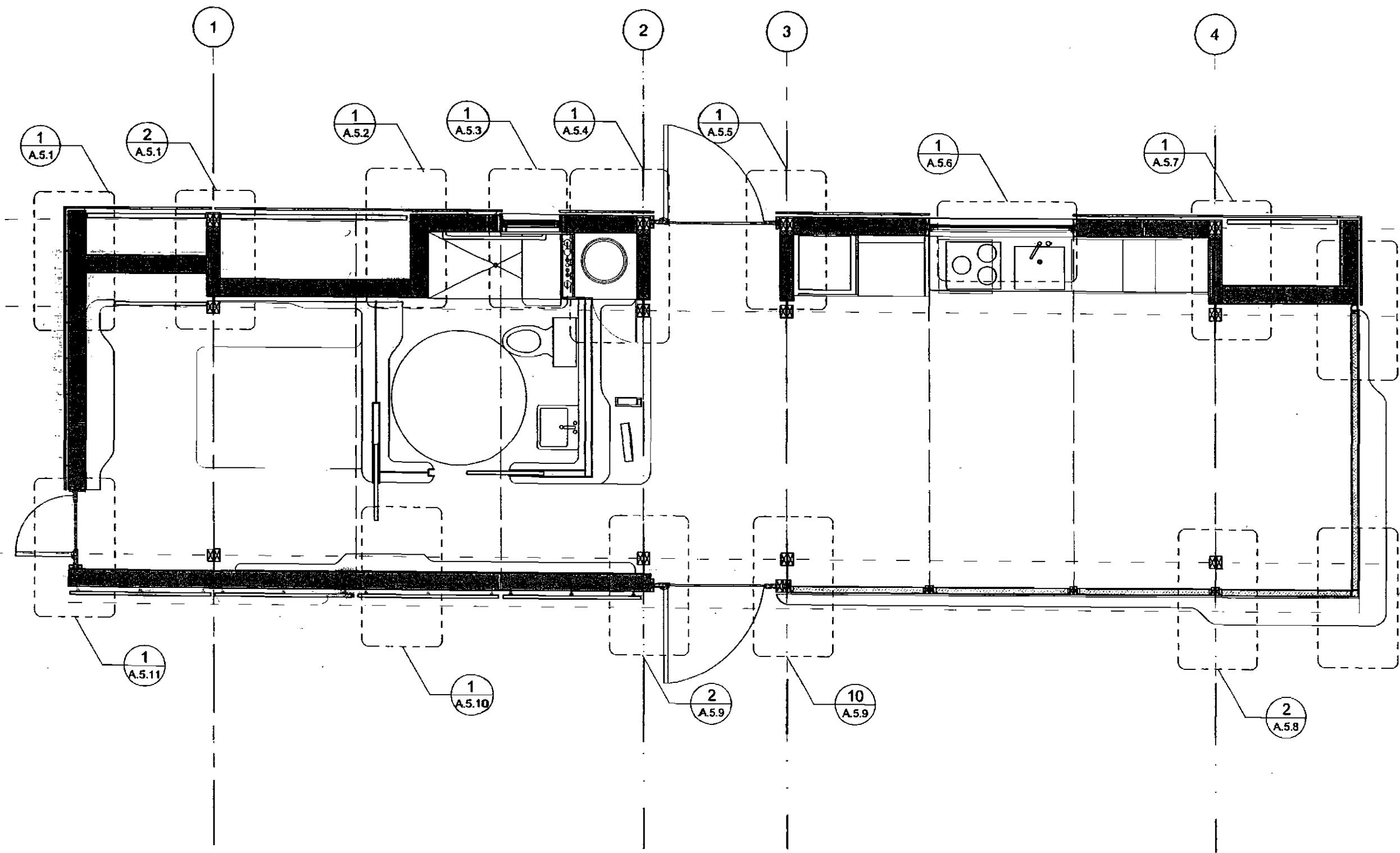
prepared by:
Robert Diamond
date drawn:
11.15.06



scale: 3" = 1' 0"

A.4.9

SECTION DETAILS - CONNECTIONS

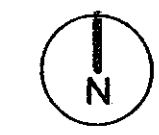


1 HORIZONTAL PLAN DETAILS
A.5.0

date	
revision	
description	

consultants:

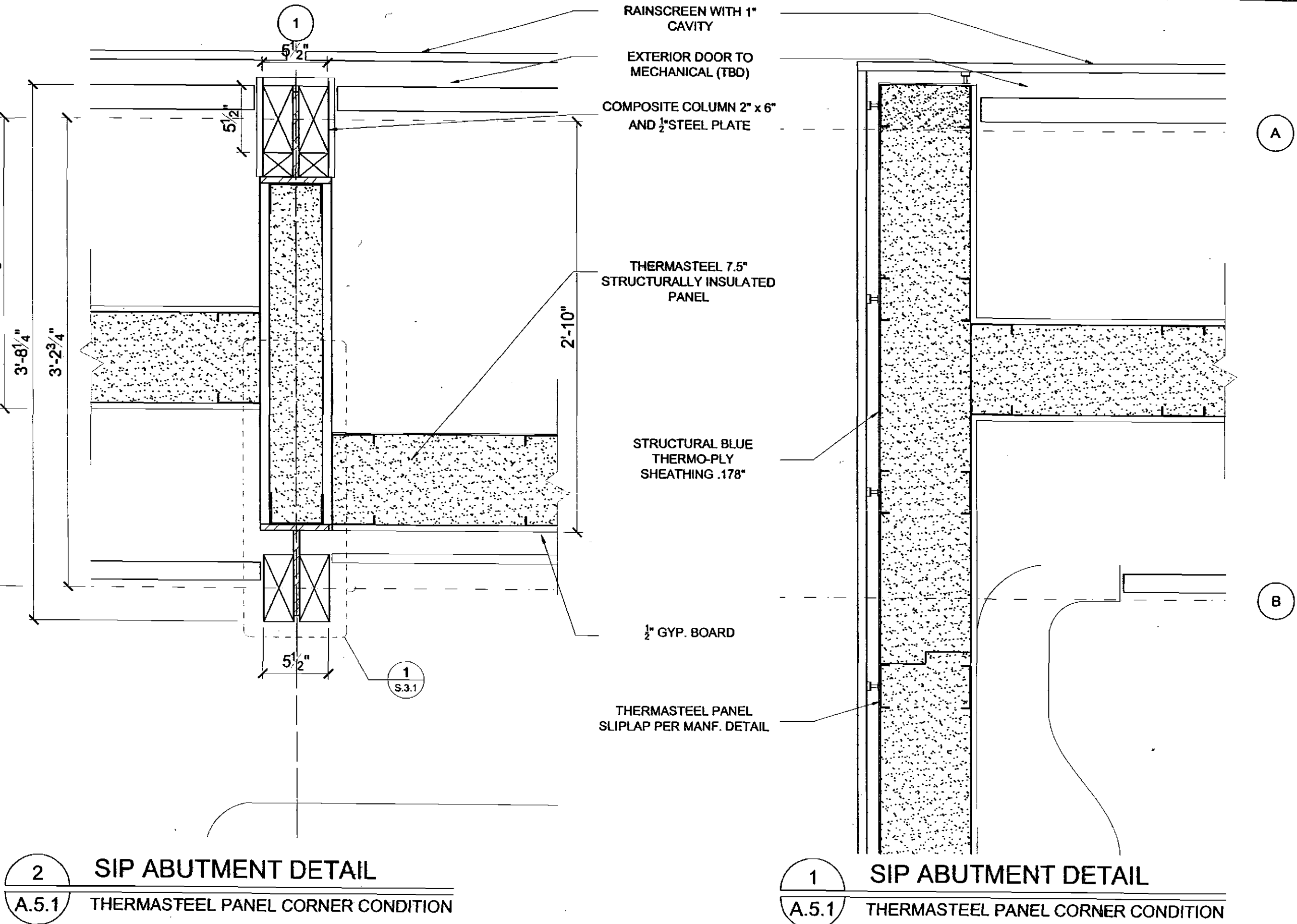
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1/4" = 1' 0"

A.5.0

FLOOR PLAN DETAILS - KEY PLAN



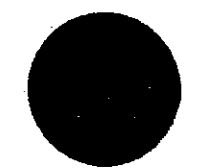
2 SIP ABUTMENT DETAIL
A.5.1 THERMASTEEL PANEL CORNER CONDITION

1 SIP ABUTMENT DETAIL
A.5.1 THERMASTEEL PANEL CORNER CONDITION



date	
description	
revision	

consultants:

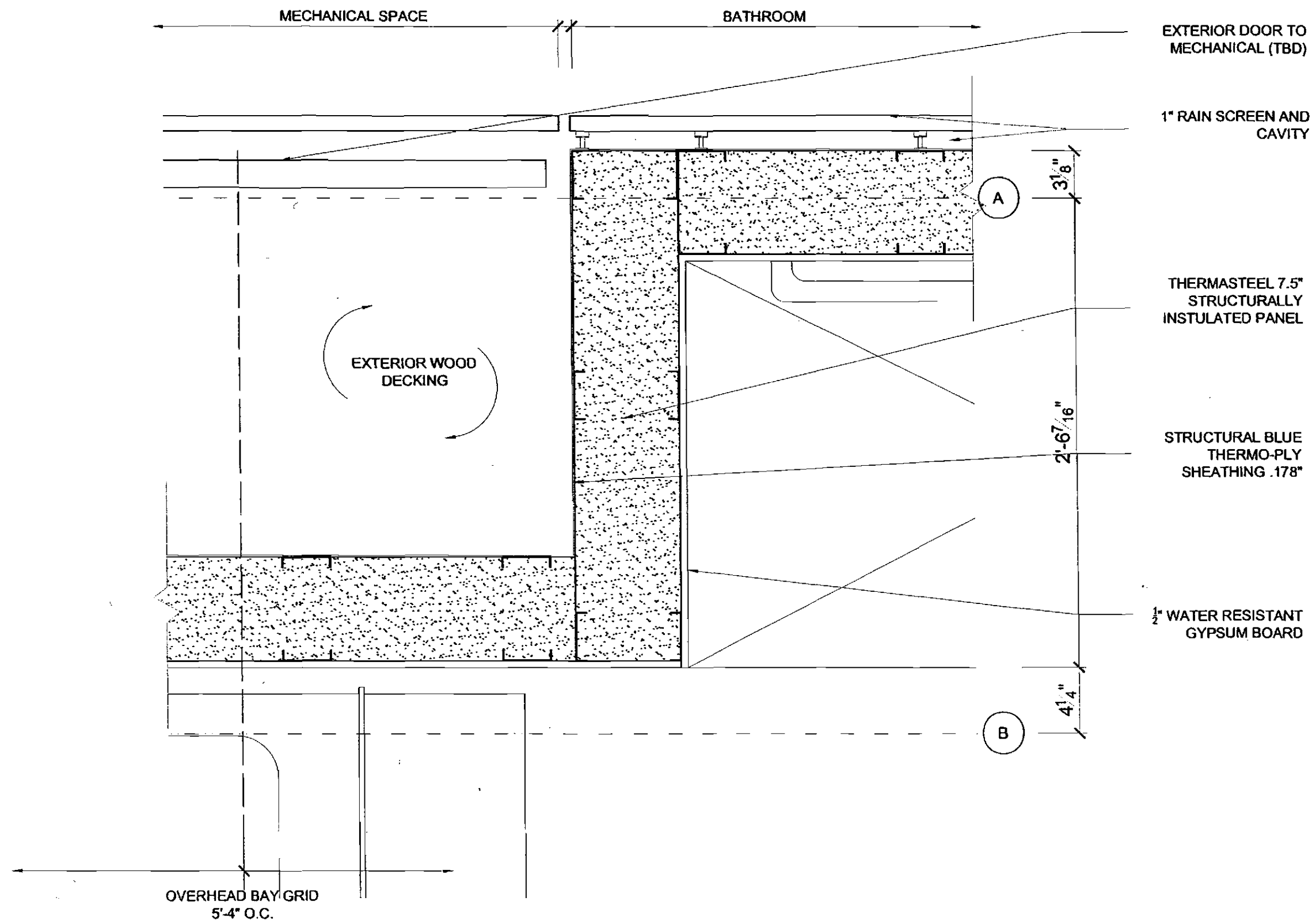


prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06

scale: 1-1/2" : 1' 0"

A.5.1

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP ABUTMENT DETAIL
A.5.2 THERMASTEEL PANEL CORNER CONDITION



date	
description	
revision	

consultants:

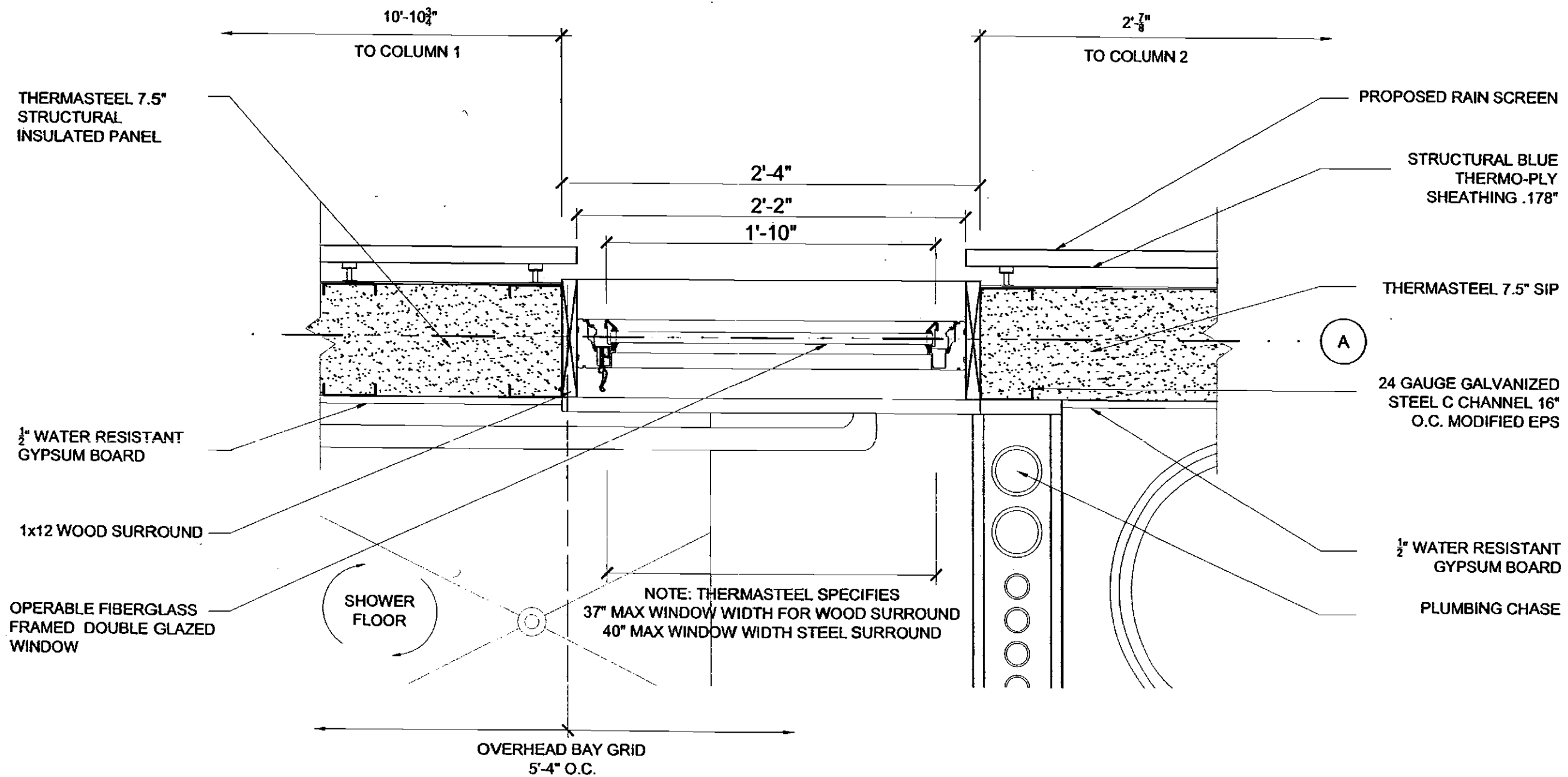
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.2

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP - WINDOW JOINT DETAIL
A.5.3



date	
description	
revision	

consultants:

prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.3

SIP ABUTMENT DETAILS - NORTH WALL

NANAWALL HSW50 LOW
-E GLASS & ARGON GAS

AIRLOCK SYSTEM
JAMB PER MANF. SPECS

THERMASTEEL 7.5"
STRUCTURALLY
INSULATED PANEL

24 GAUGE GALVANIZED STEEL C
CHANNEL 16" O.C. MODIFIED EPS

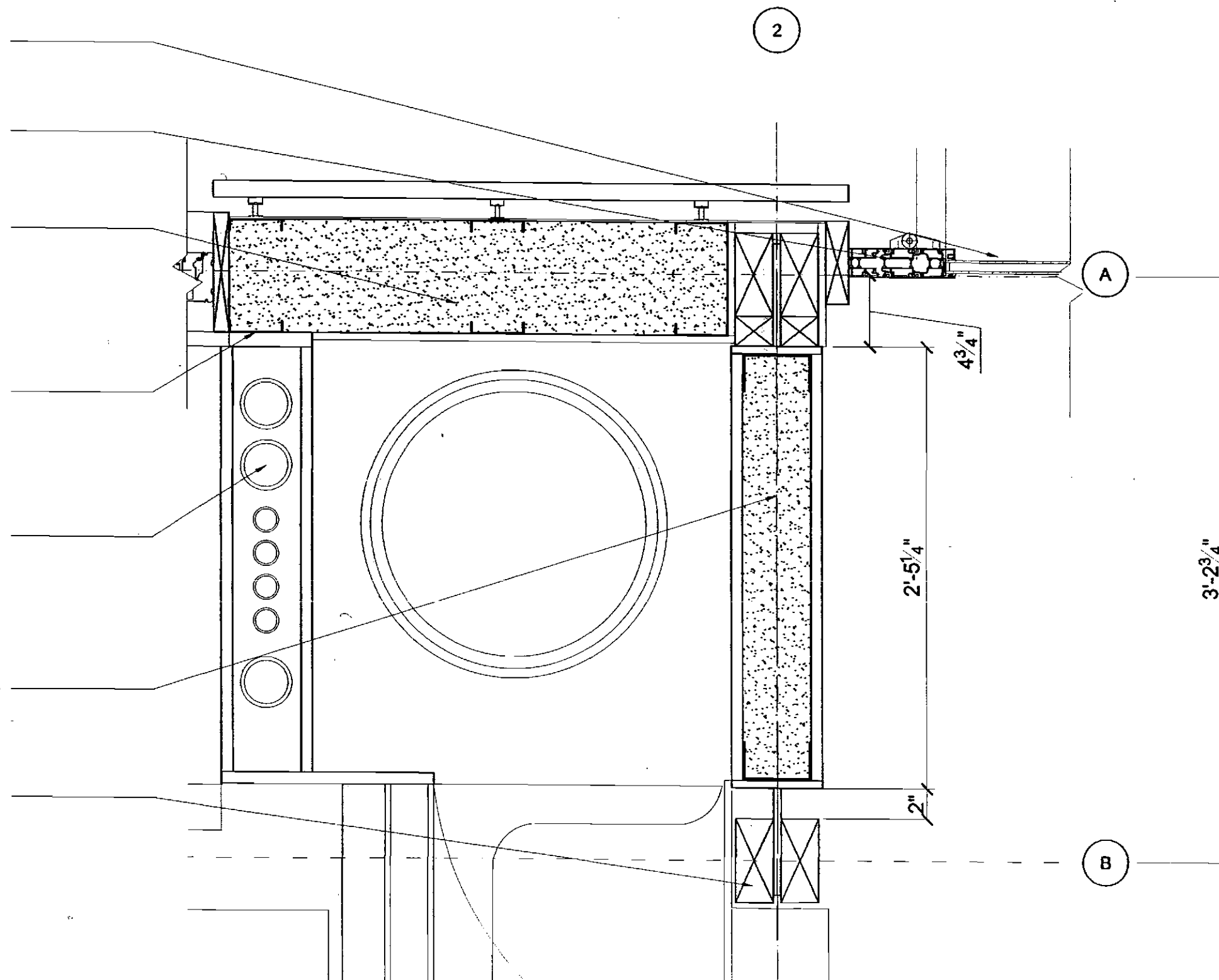
PLUMBING CHASE

THERMASTEEL 4.5" STRUCTURALLY
INSULATED PANEL

COMPOSITE COLUMN
SEE STRUCTURAL DRAWINGS

1 SIP - NORTH ENTRANCE DOOR

A.5.4



date	
revision	
description	

consultants:

prepared by:

Tony Piede

Nadine Kashlan

date drawn:

03.06.07

12.06.06



scale: 1-1/2" : 1' 0"

A.5.4

SIP ABUTMENT DETAILS - NORTH WALL

RAIN SCREEN WITH 1" CAVITY

AIRLOCK SYSTEM JAMB PER MANF. SPECS

NANAWALL HSW50 LOW-E GLASS & ARGON GAS

GYPSUM THERMAL ENCASEMENT FOR FLITCH BEAM

KITCHEN COUNTERTOP

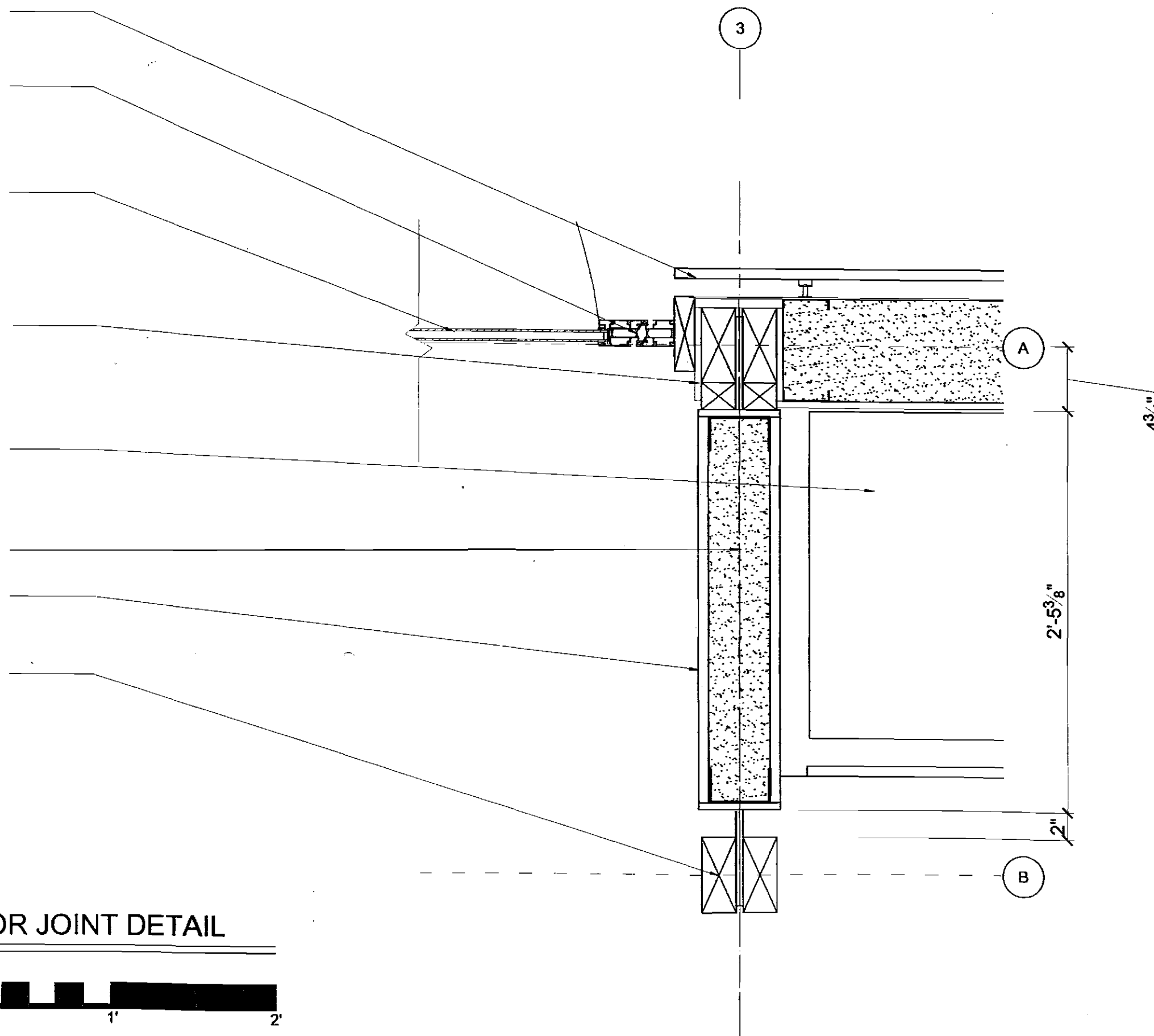
THERMASTEEL 4.5" STRUCTURALLY INSULATED PANEL

3/4" GYPSUM BOARD

COMPOSITE COLUMN (SEE STRUCTURAL DRAWINGS)

1 SIP - DOOR JOINT DETAIL

A.5.5



date

description

revision

consultants:

prepared by:

Tony Piele

Nadine Kashlan

date drawn:

03.06.07

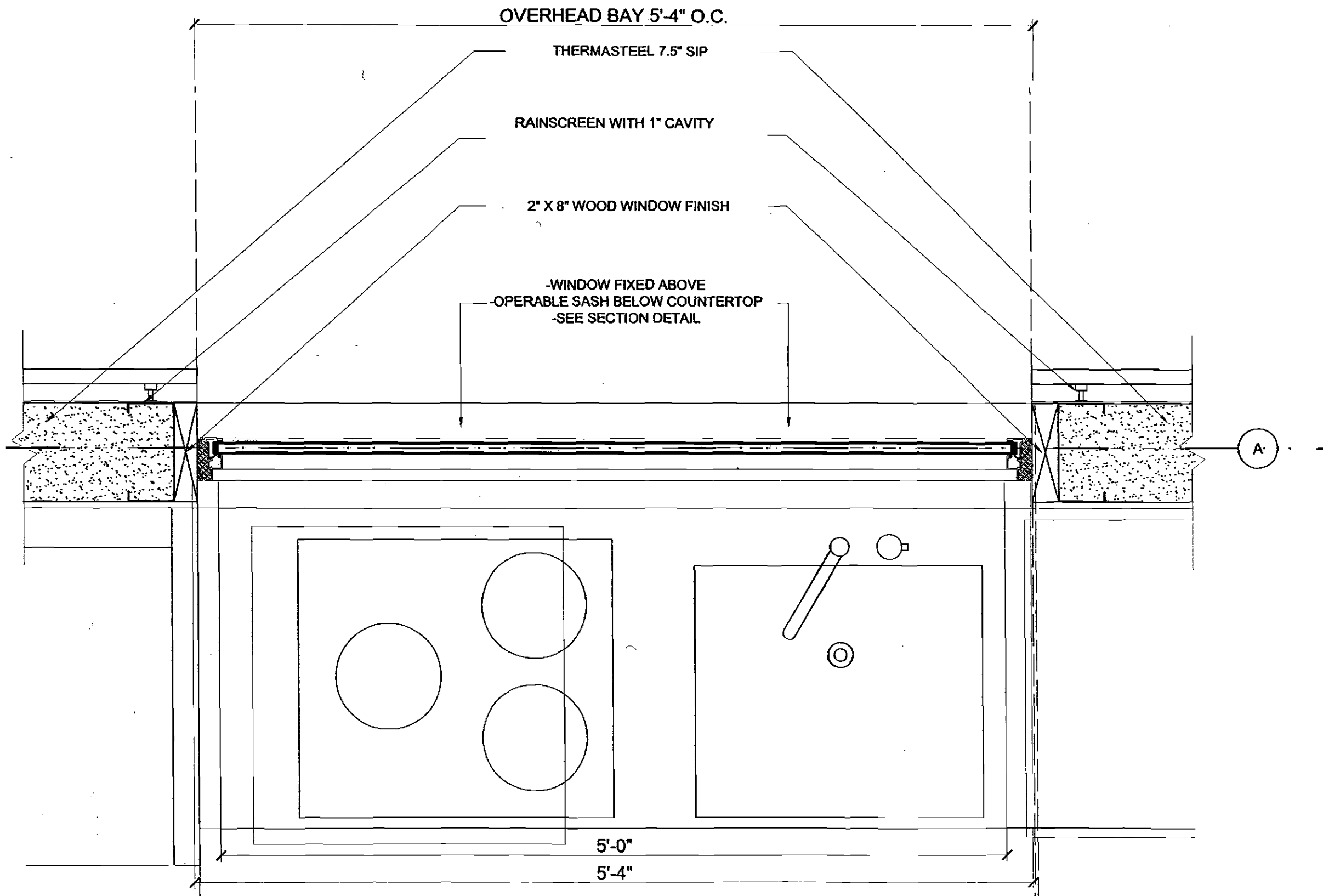
12.06.06



scale: 1-1/2" : 1' 0"

A.5.5

SIP ABUTMENT DETAILS - NORTH WALL



1 SIP WINDOW JOINT DETAIL AT THE KITCHEN
A.5.6



date	
revision	
description	

consultants:

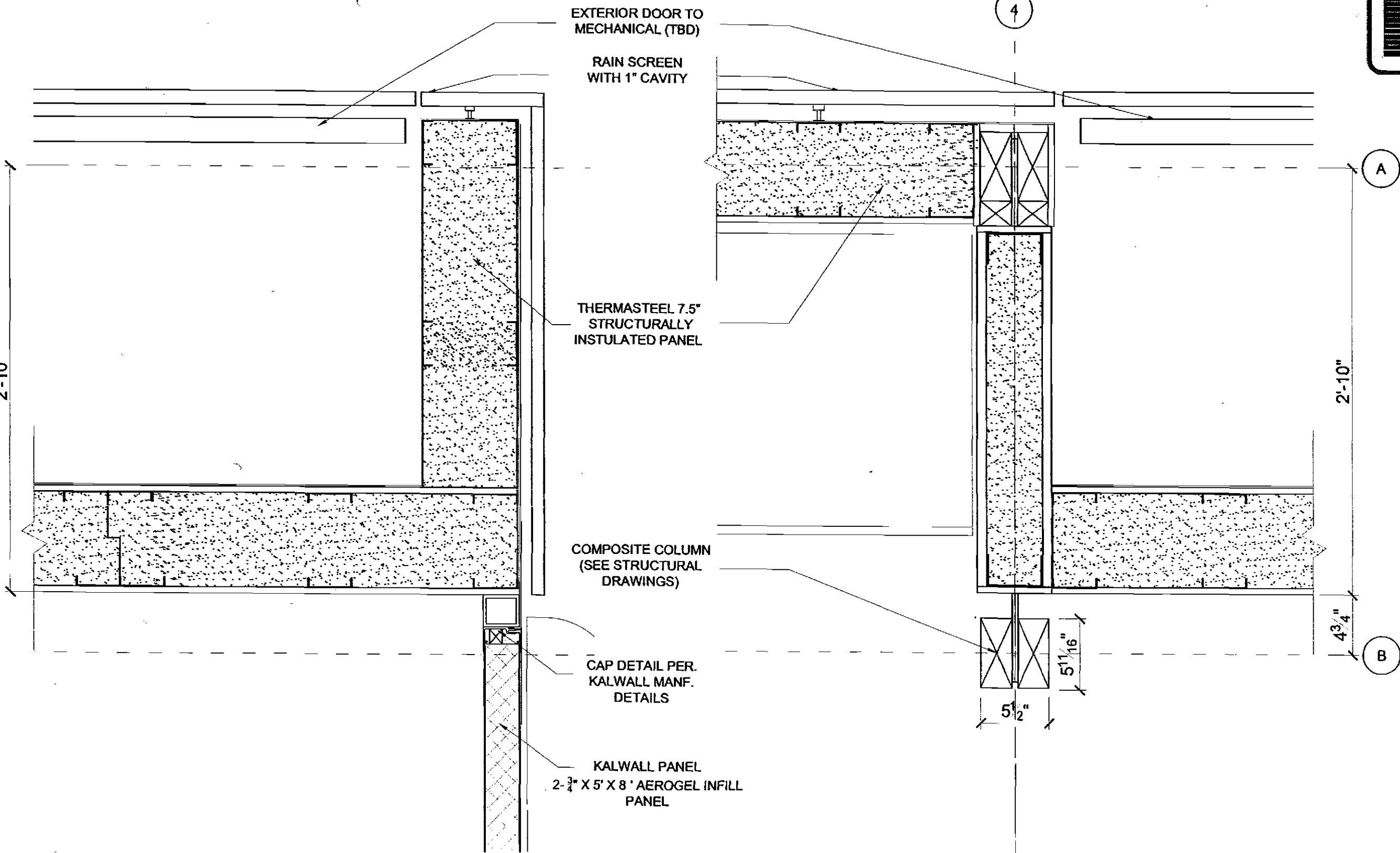
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.6

SIP ABUTMENT DETAILS - NORTH WALL



revision	description	date

consultants:

prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
 03.06.07
 12.06.06



scale: 1-1/2" : 1' 0"

A.5.7

SIP ABUTMENT DETAILS

2 SIP - KALWALL JOINT, EAST FACADE
 A.5.7

1 SIP ABUTMENT DETAIL
 A.5.7



4

ALUMINUM THERMALLY BROKEN
JOINT DETAIL PER KALWALL
MANF. DETAIL

CUSTOM MULLION

KALWALL 2-3/4"
AEROGEL INFILL PANEL

c

1'-2 5/8"

1'-2 5/8"

AWPL EXTERIOR
LOUVRES

2

KALWALL PANEL JOINT - SOUTH WALL

A.5.8

1

KALWALL CORNER DETAIL - SE CORNER

A.5.8



date	
description	
revision	

consultants:

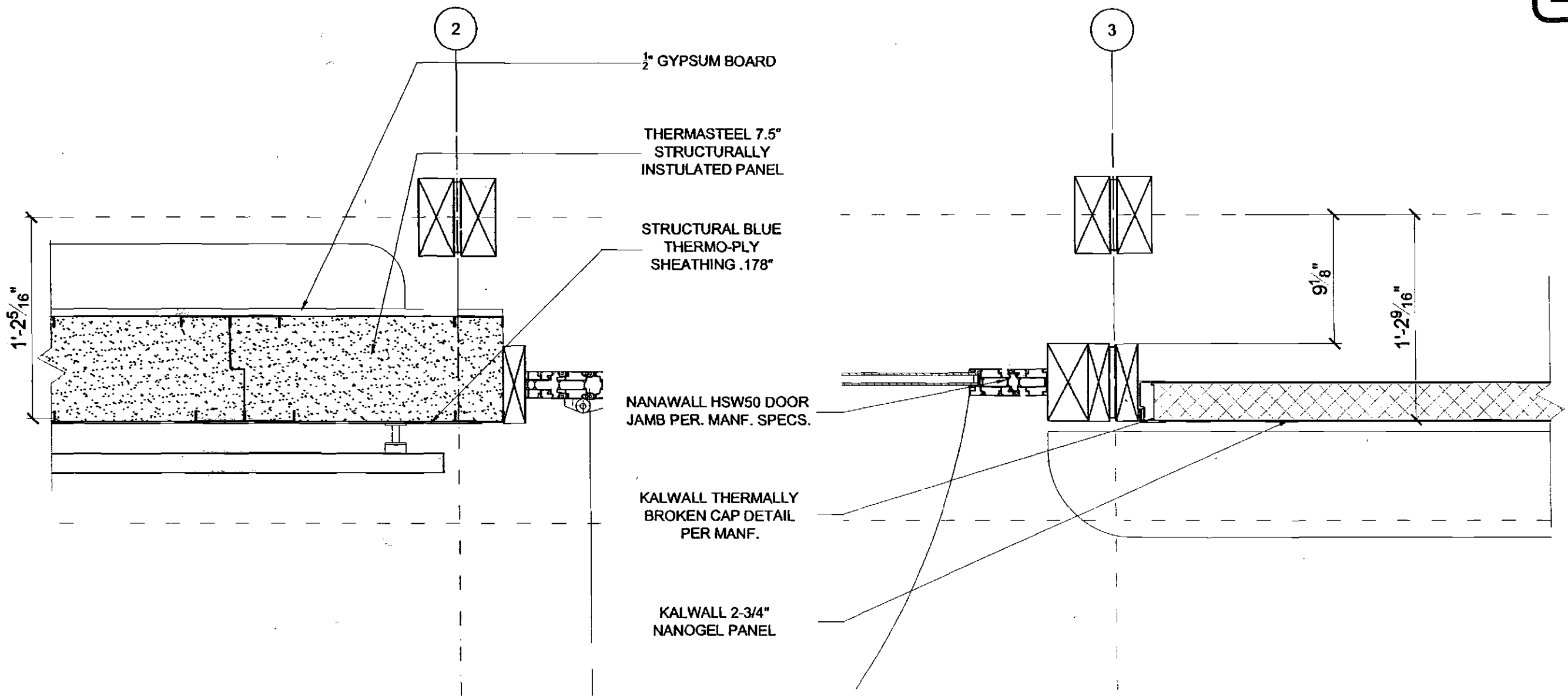
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.8

KALWALL ABUTMENT DETAILS



2 SIP - DOOR DETAIL
A.5.9

1 KALWALL - DOOR DETAIL
A.5.9



date	
description	
revision	

consultants:

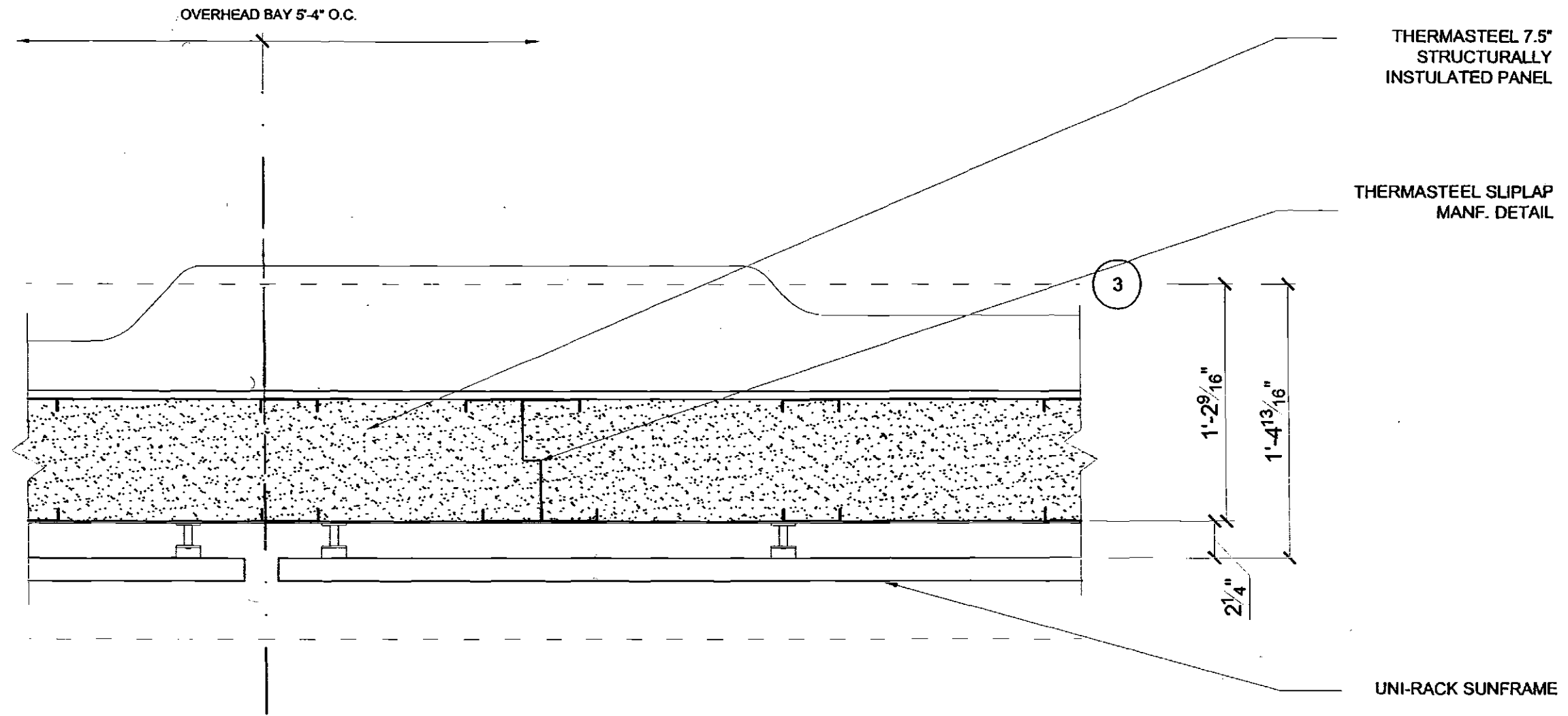
prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06



scale: 1-1/2" : 1' 0"

A.5.9

KALWALL - DOOR JOINT DETAIL - SOUTH WALL



1
A.5.10

SIP - PV JOINT DETAIL - SOUTH WALL



date	
description	
revision	

consultants:

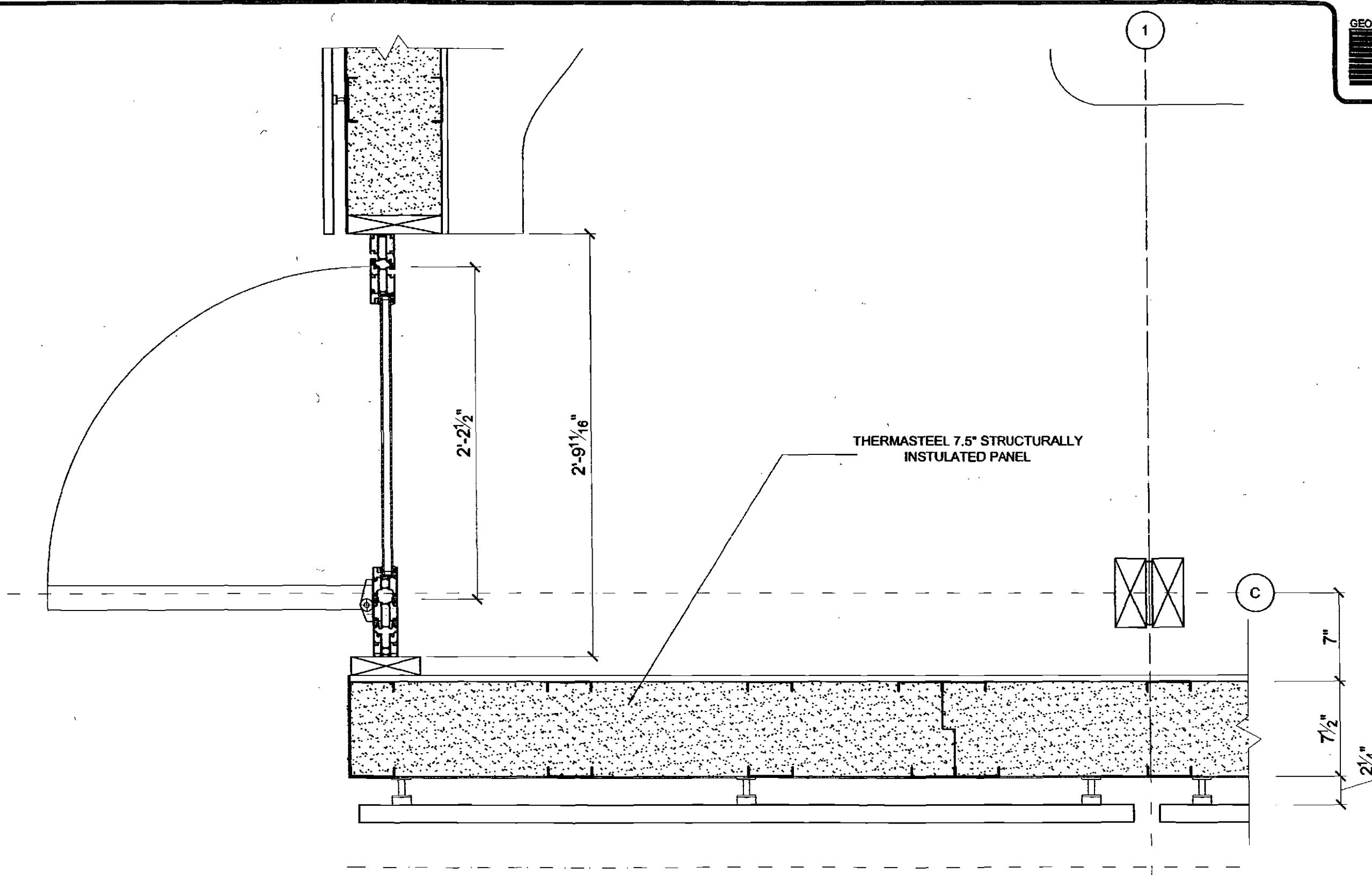


prepared by:
Tony Piede
Nadine Kashlan
date drawn:
03.06.07
12.06.06

scale: 1-1/2" : 1' 0"

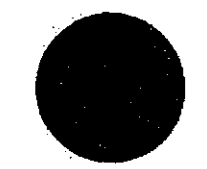
A.5.10

SIP - PV JOINT DETAIL-SOUTH WALL



revision	description	date

consultants:



prepared by:
Tony Piede
Nadine Kashlan
 date drawn:
 03.06.07
 12.06.06

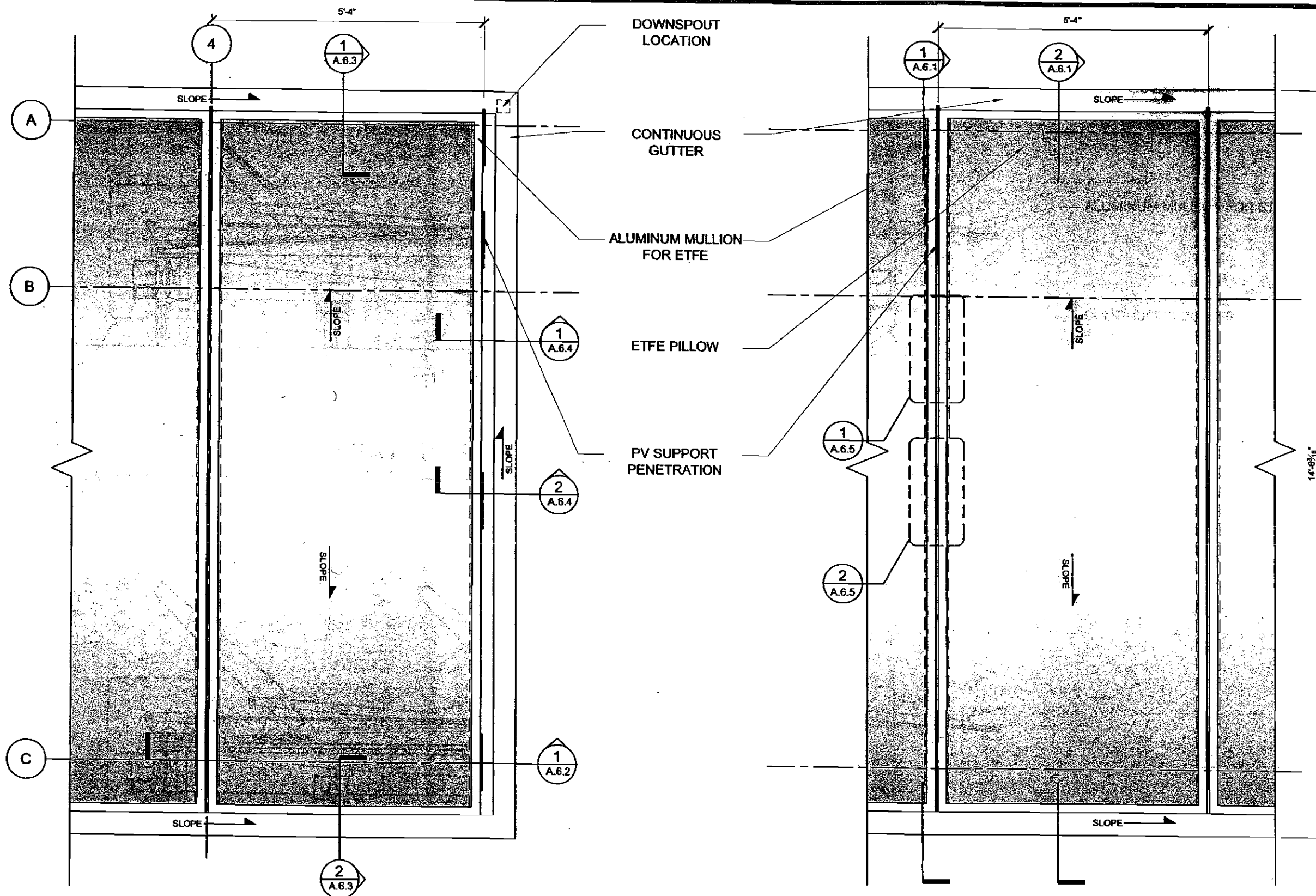
scale: 1-1/2" : 1' 0"

A.5.11

SIP - PV JOINT DETAIL - SOUTH WALL

1 SIP - PV JOINT DETAIL - SOUTH WALL
 A.5.11





2 DETAIL ROOF BAY AT ENDS
A.6.0

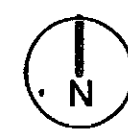


1 TYPICAL DETAIL ROOF BAY
A.6.0

date	
description	
revision	

consultants	

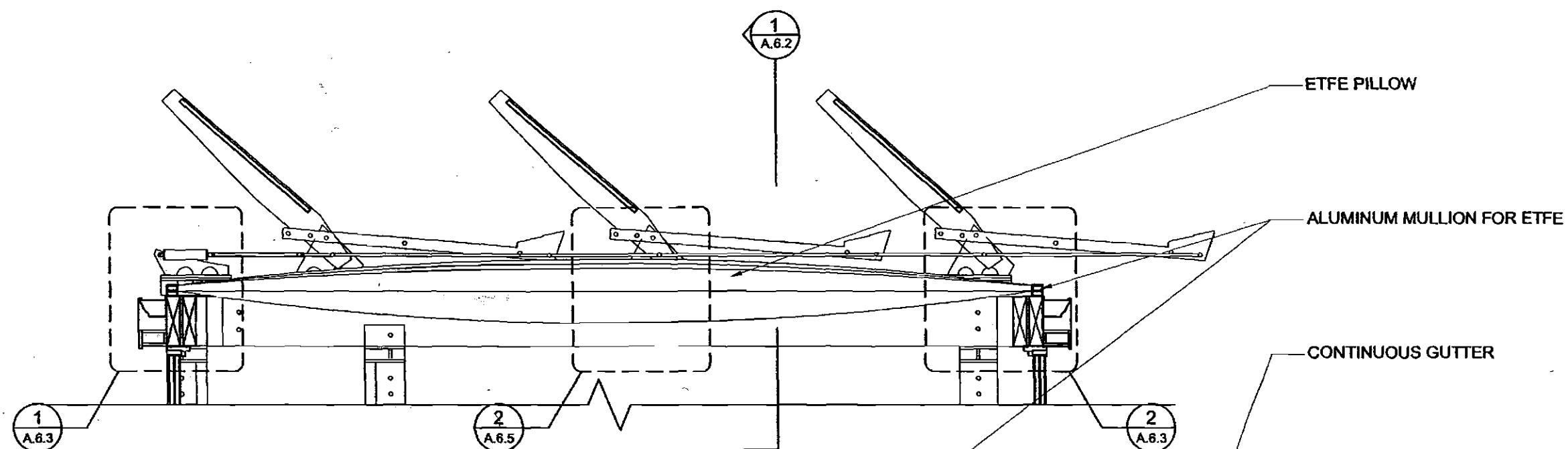
prepared by:
Alstan Jakubiec
date drawn:
12.04.06



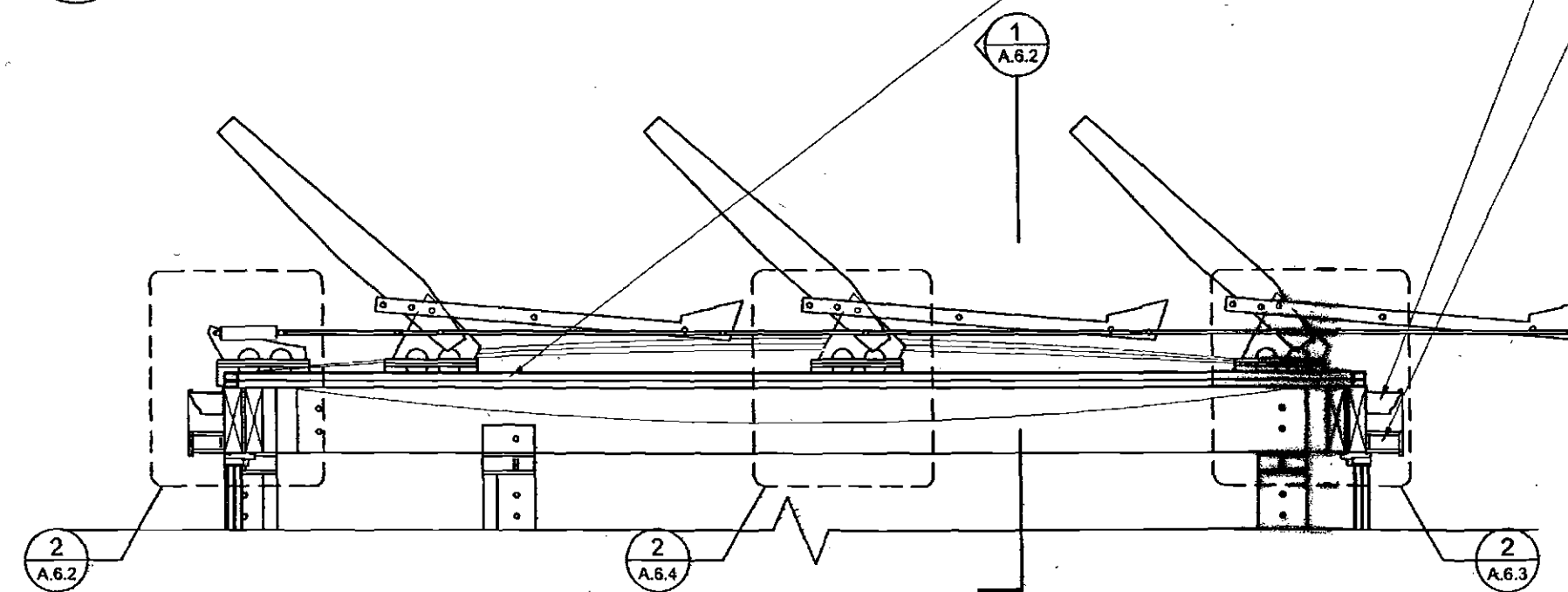
scale: 1/2" : 1' 0"

A.6.0

ETFE ROOF DETAILS



2 SECTION ILLUSTRATING ETFE PILLOW
A.6.1



1 SECTION ILLUSTRATING ETFE MULLION
A.6.1



date	
description	
revision	

consultants:

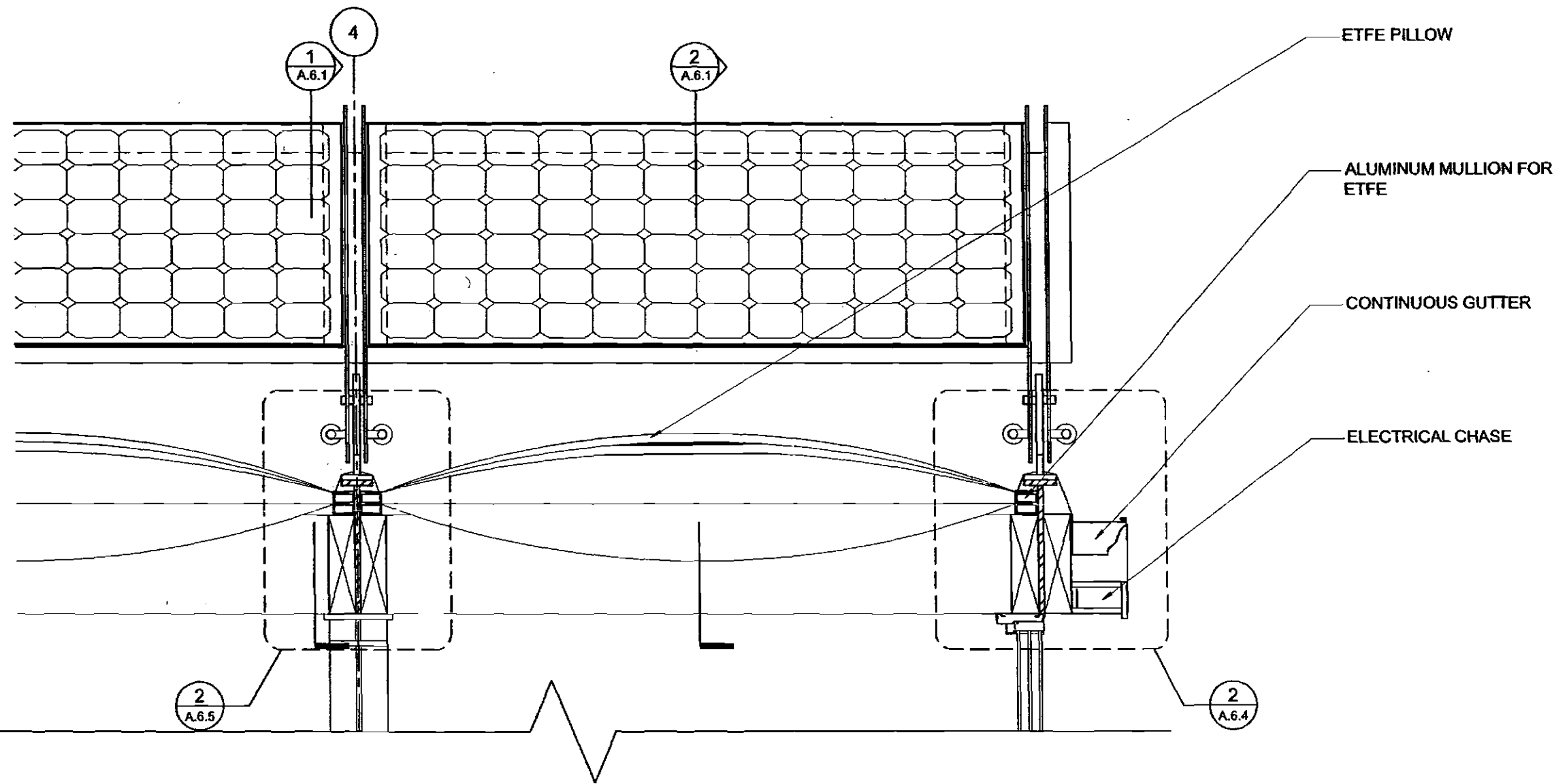
prepared by:
Alstan Jakubiec
date drawn:
11.26.06



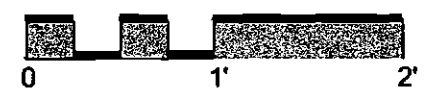
scale: 1/2" : 1' 0"

A.6.1

ETFE ROOF DETAILS



1
A.6.2
DETAIL ROOF BAY AT EAST



date	
description	
revision	

consultants:

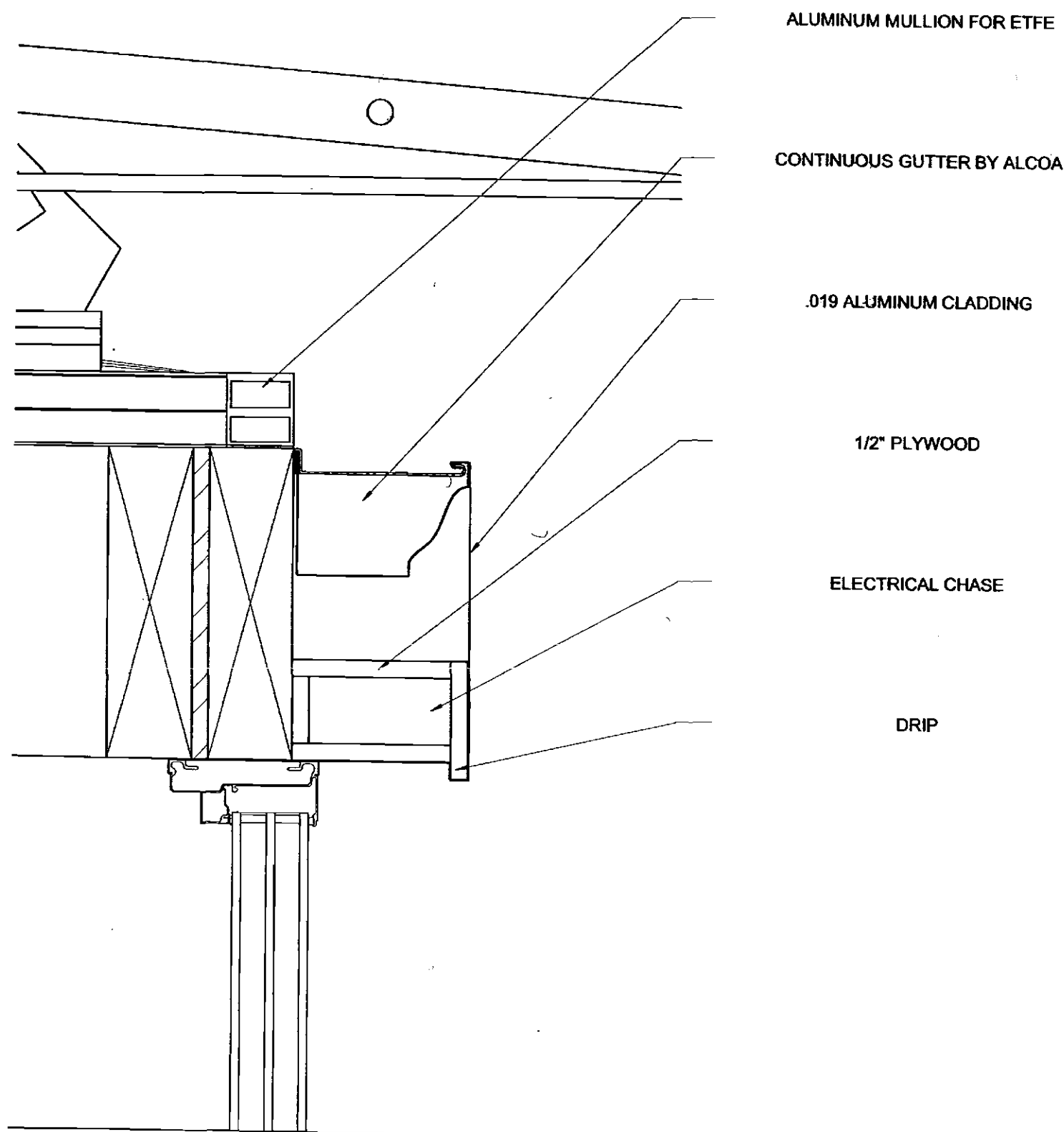
prepared by:
Alstan Jakubiec
date drawn:
11.26.06



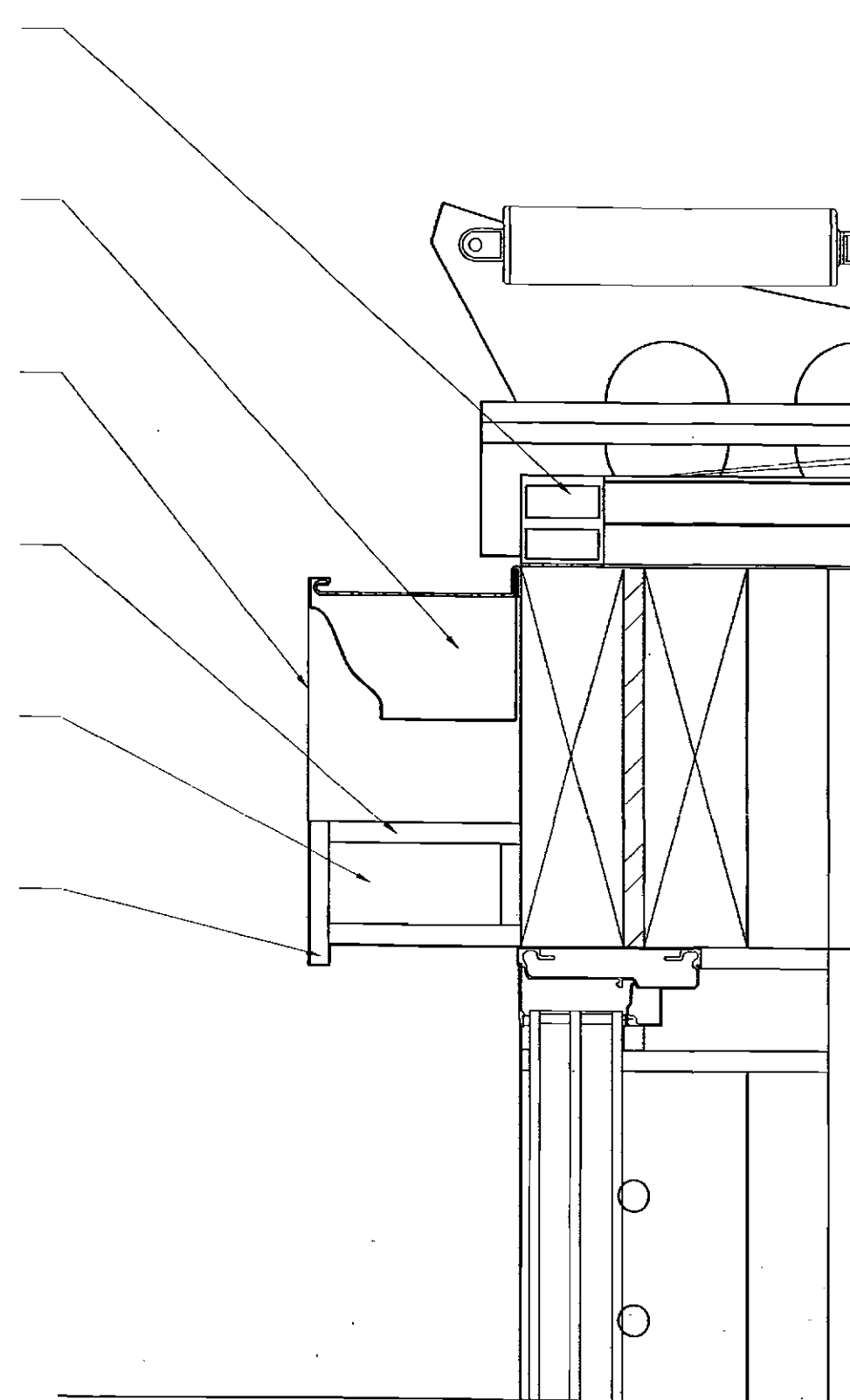
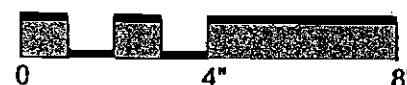
scale: 1" : 1' 0"

A.6.2

ETFE ROOF DETAILS



2
A.6.3
DETAIL AT SOUTH



1
A.6.3
DETAIL AT NORTH

date	
description	
revision	

consultants:	

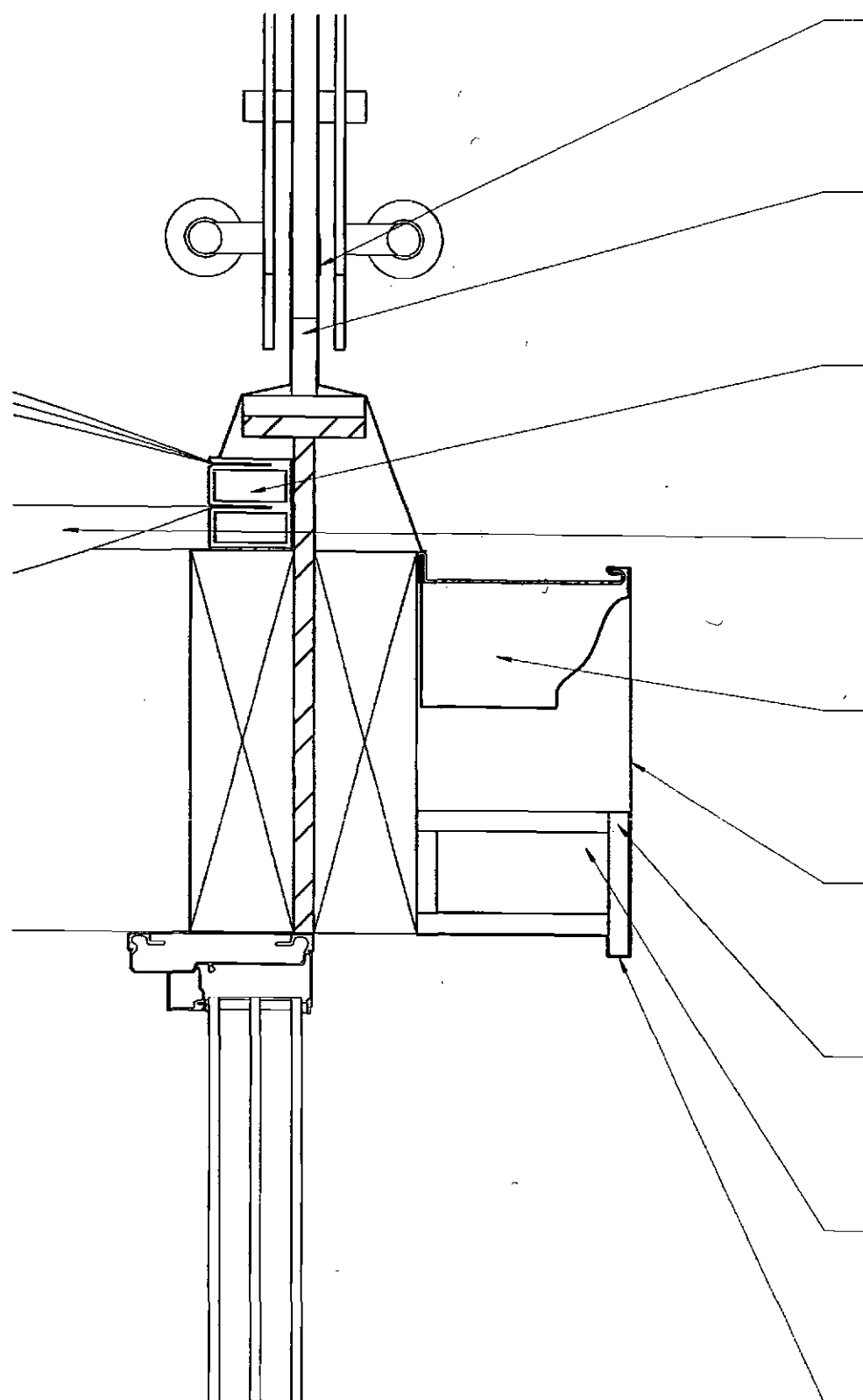
prepared by:
Alstan Jakubiec
date drawn:
12.04.06



scale: 3" : 1' 0"

A.6.3

ETFE ROOF DETAILS



.019 ALUMINUM COPING

PHOTOVOLTAIC SUPPORT

ALUMINUM MULLION FOR ETFE

ETFE PILLOW

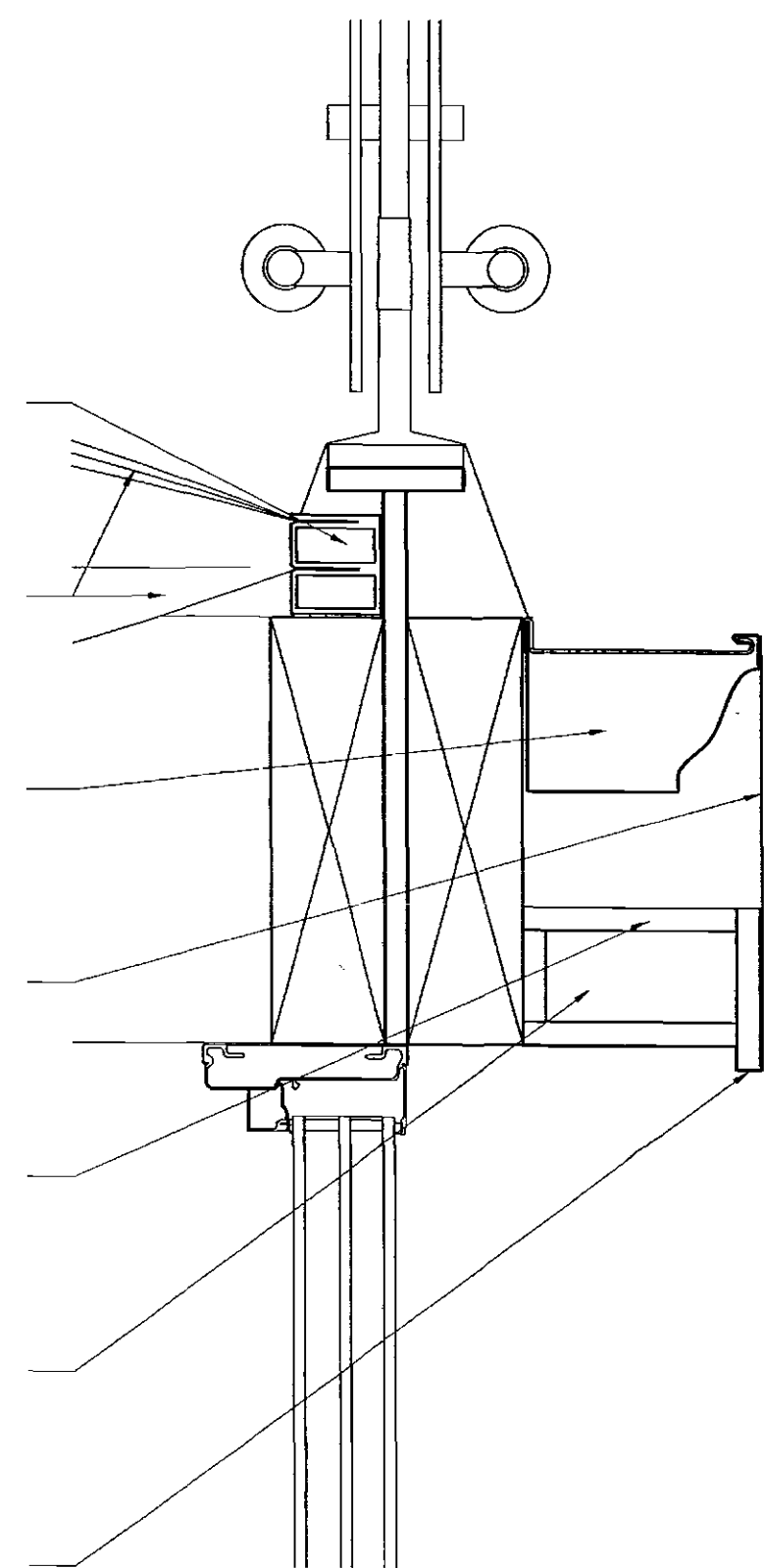
CONTINUOUS GUTTER BY ALCOA

.019 ALUMINUM CLADDING

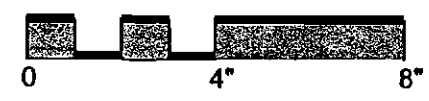
1/2" PLYWOOD

ELECTRICAL CHASE

DRIP



2
A.6.4
DETAIL AT EAST PV SUPPORT



1
A.6.4
TYPICAL DETAIL AT EAST

date	
description	
revision	

consultants:

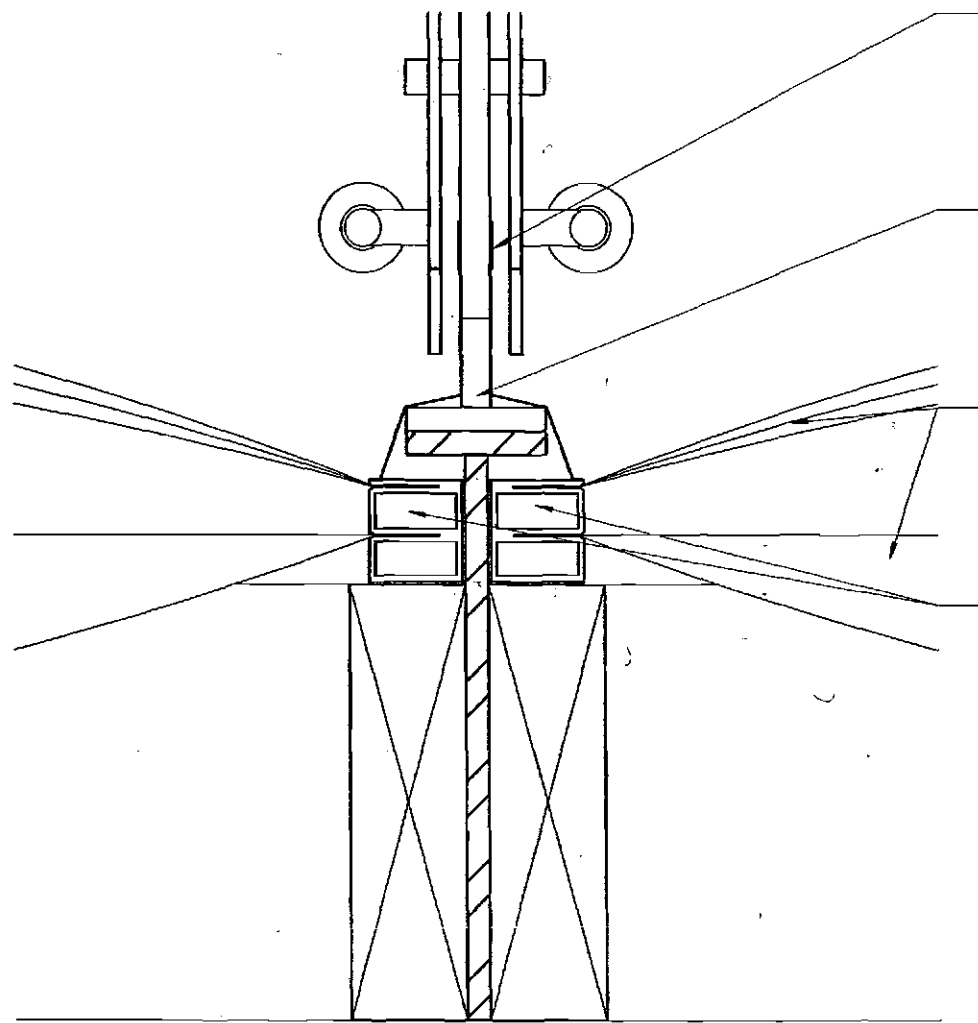
prepared by:
Alstan Jakubiec
date drawn:
12.04.06



scale: 3" : 1' 0"

A.6.4

ETFE ROOF DETAILS

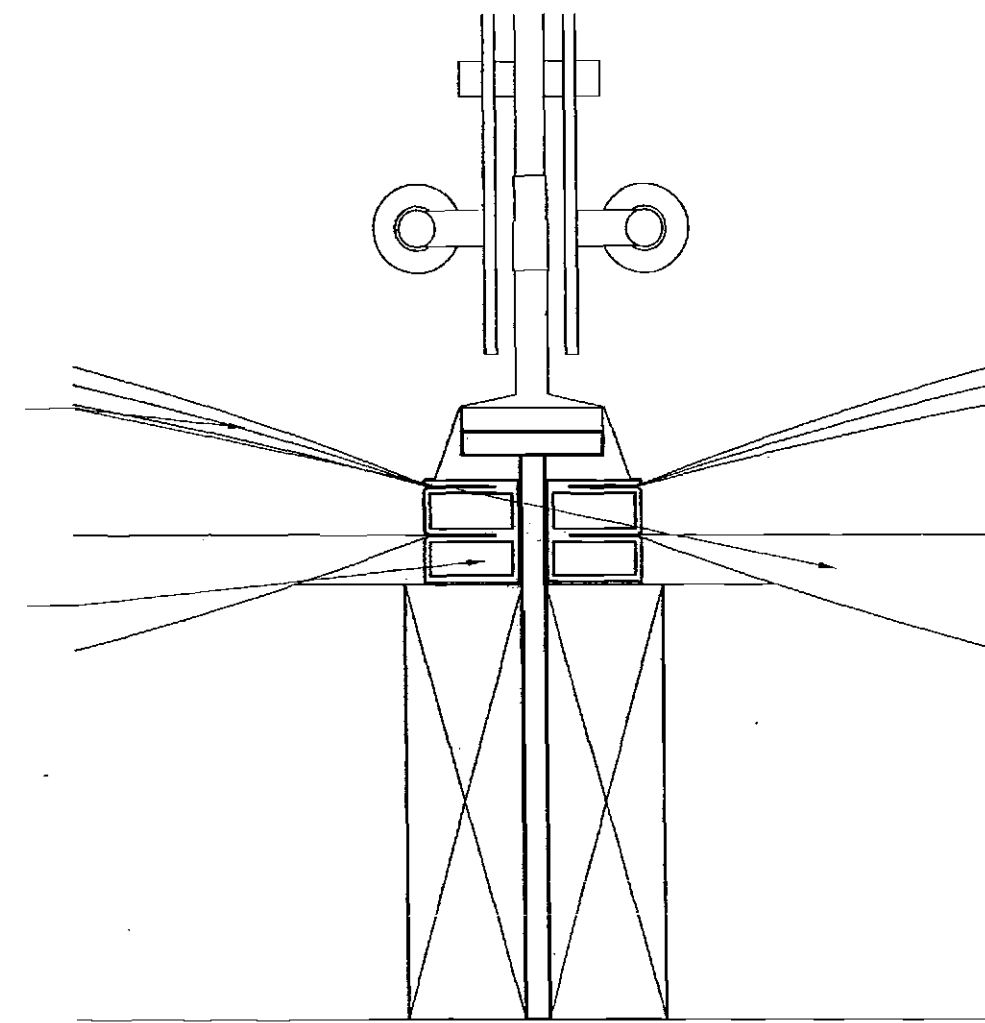


.019 ALUMINUM COPING

PV SUPPORT

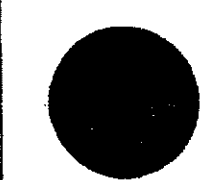
ETFE PILLOW

ALUMINUM MULLION FOR ETFE



date	
description	
revision	

consultants:



prepared by:
Alistan Jakubiec
date drawn:
12.04.06



scale: 3" : 1' 0"

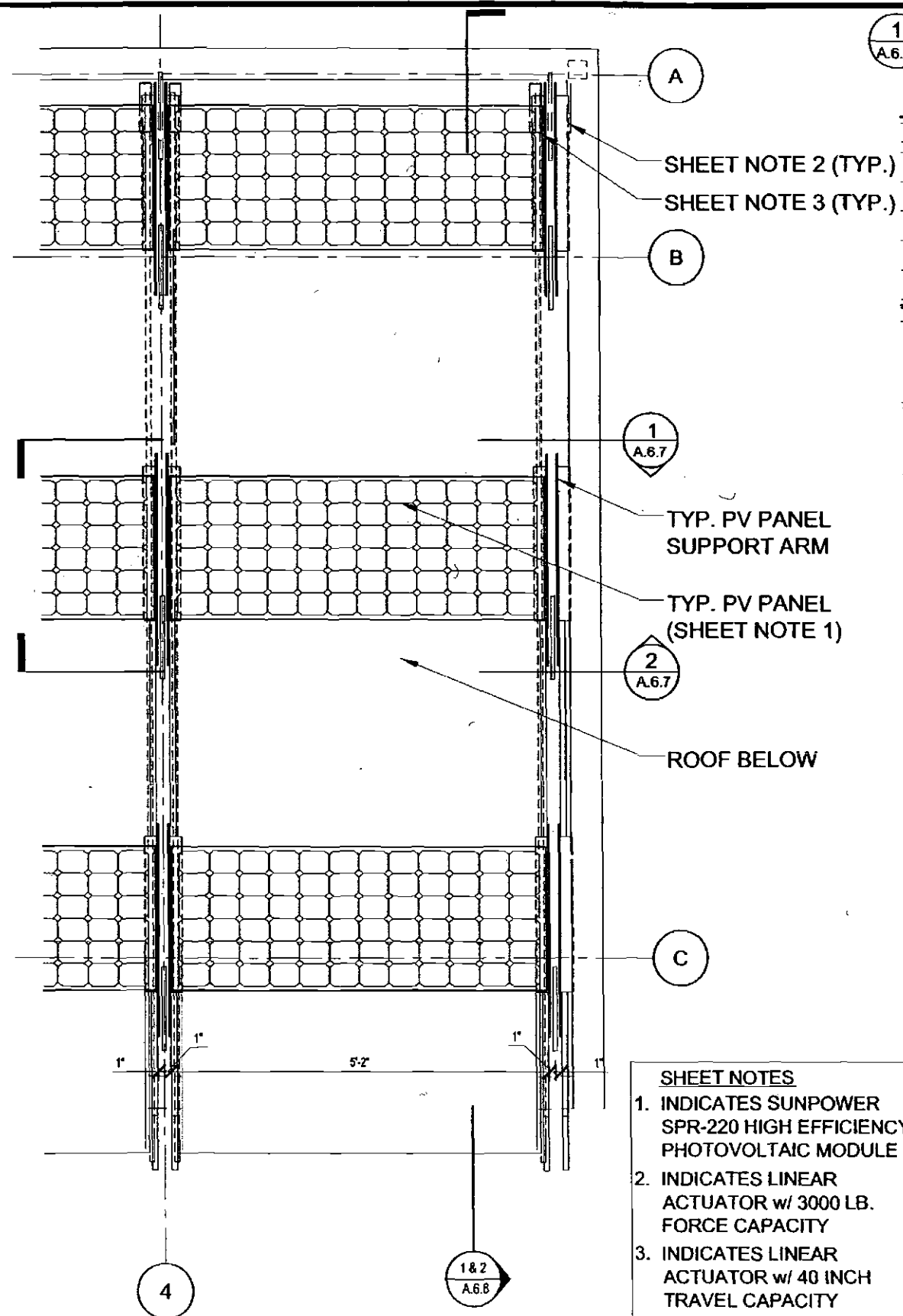
ETFE ROOF DETAILS

2 INTERIOR DETAIL AT PV SUPPORT
A.6.5



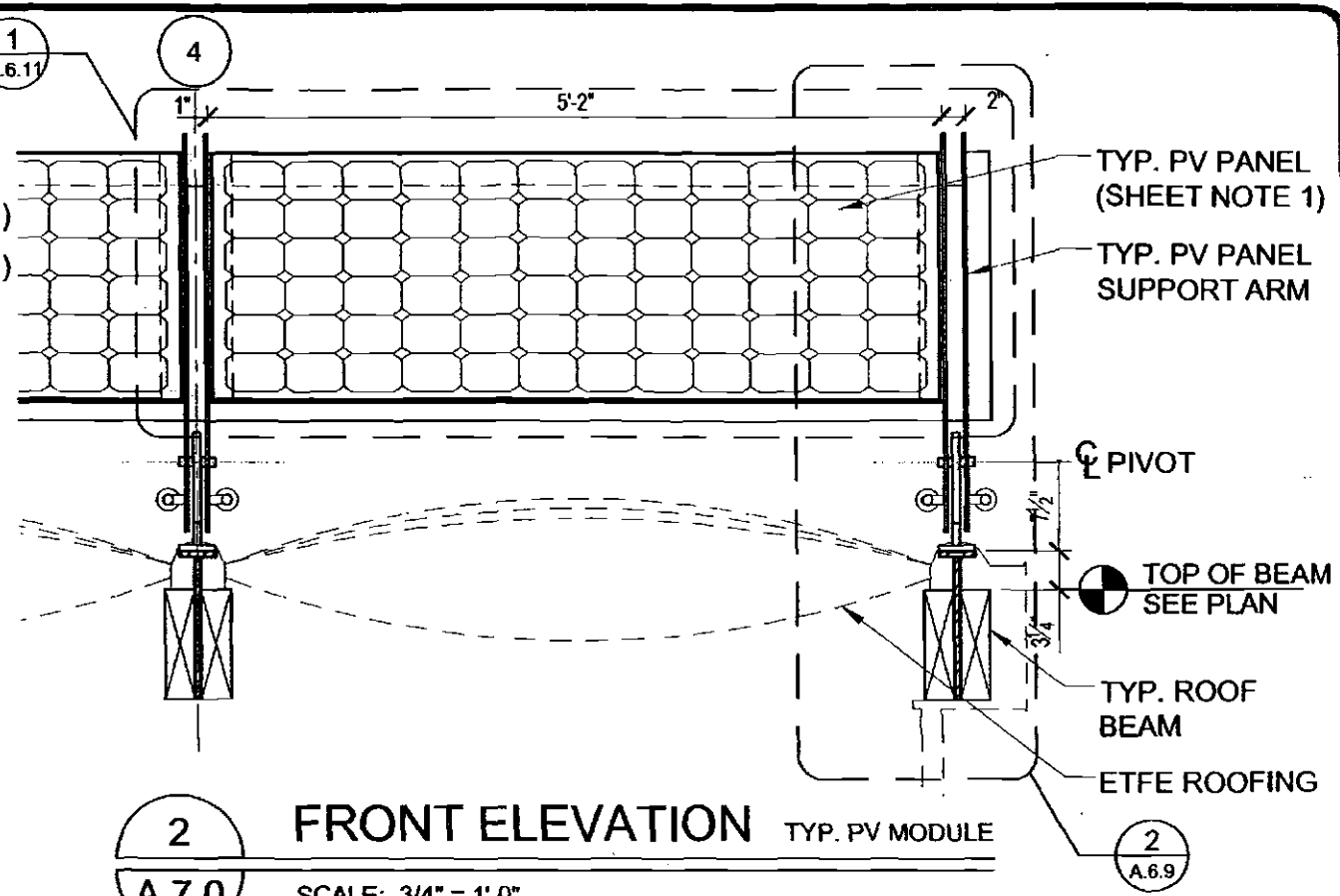
1 TYPICAL INTERIOR DETAIL
A.6.5

A.6.5

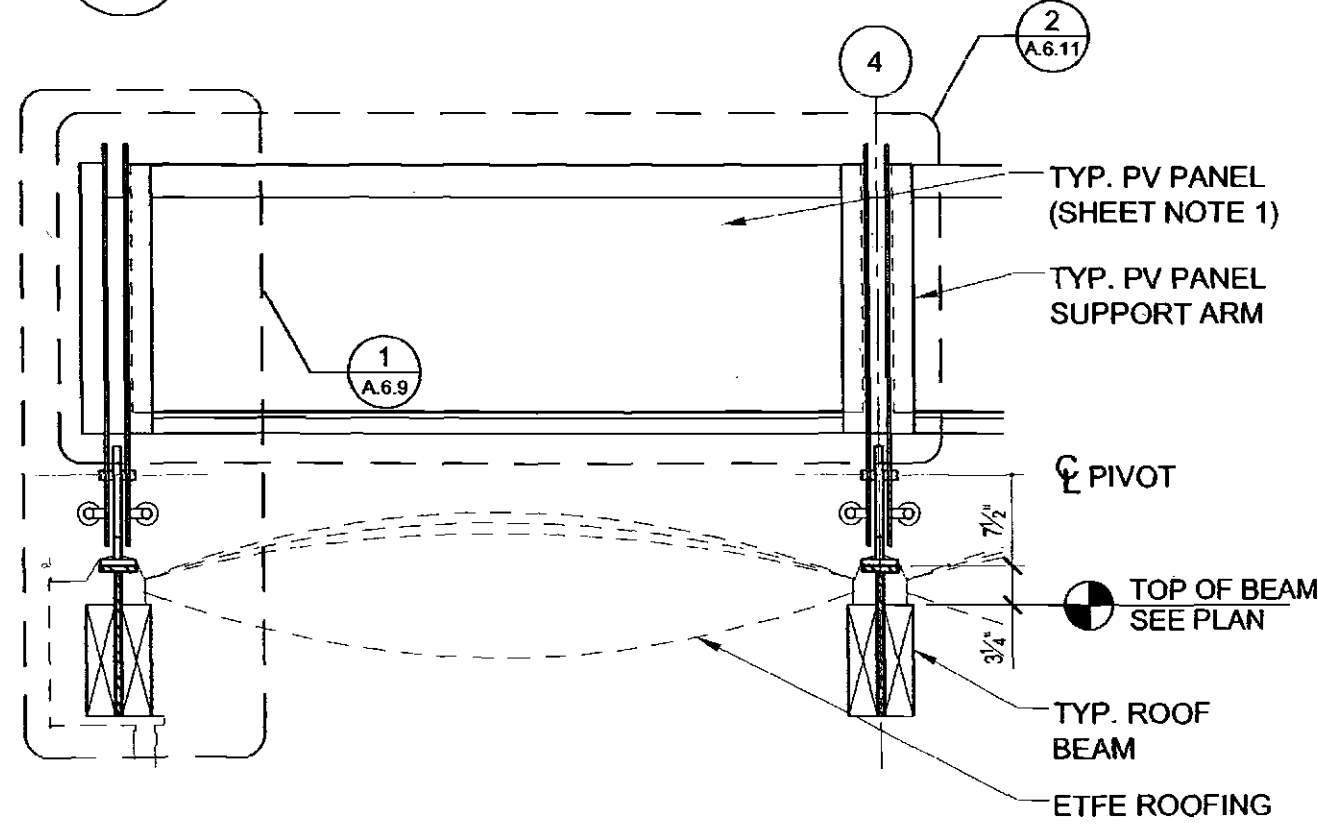


3 PLAN DETAIL
TYP. PV MODULE
A.7.0 SCALE: 1/2" = 1'-0"

- SHEET NOTES**
1. INDICATES SUNPOWER SPR-220 HIGH EFFICIENCY PHOTOVOLTAIC MODULE
 2. INDICATES LINEAR ACTUATOR w/ 3000 LB. FORCE CAPACITY
 3. INDICATES LINEAR ACTUATOR w/ 40 INCH TRAVEL CAPACITY



2 FRONT ELEVATION
TYP. PV MODULE
A.7.0 SCALE: 3/4" = 1'-0"



1 REAR ELEVATION
TYP. PV MODULE
A.7.0 SCALE: 3/4" = 1'-0"

date	description	revision

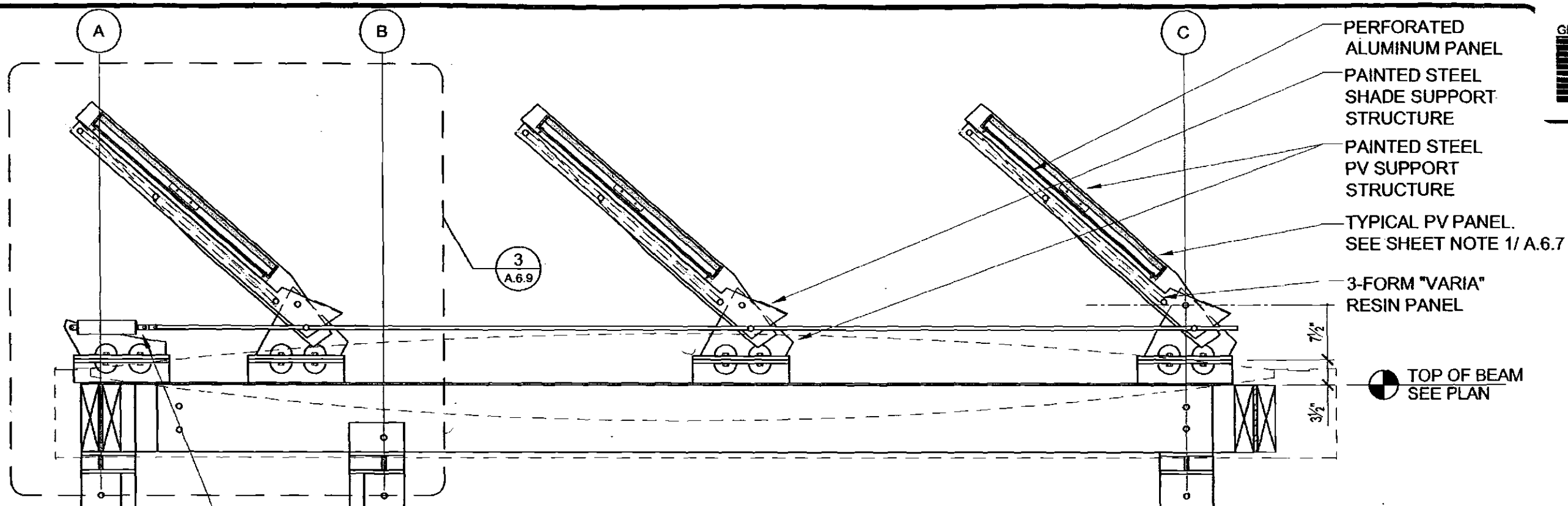
consultants:

prepared by:
Jamie O'Kelley
date drawn:
12.04.06
03.03.07

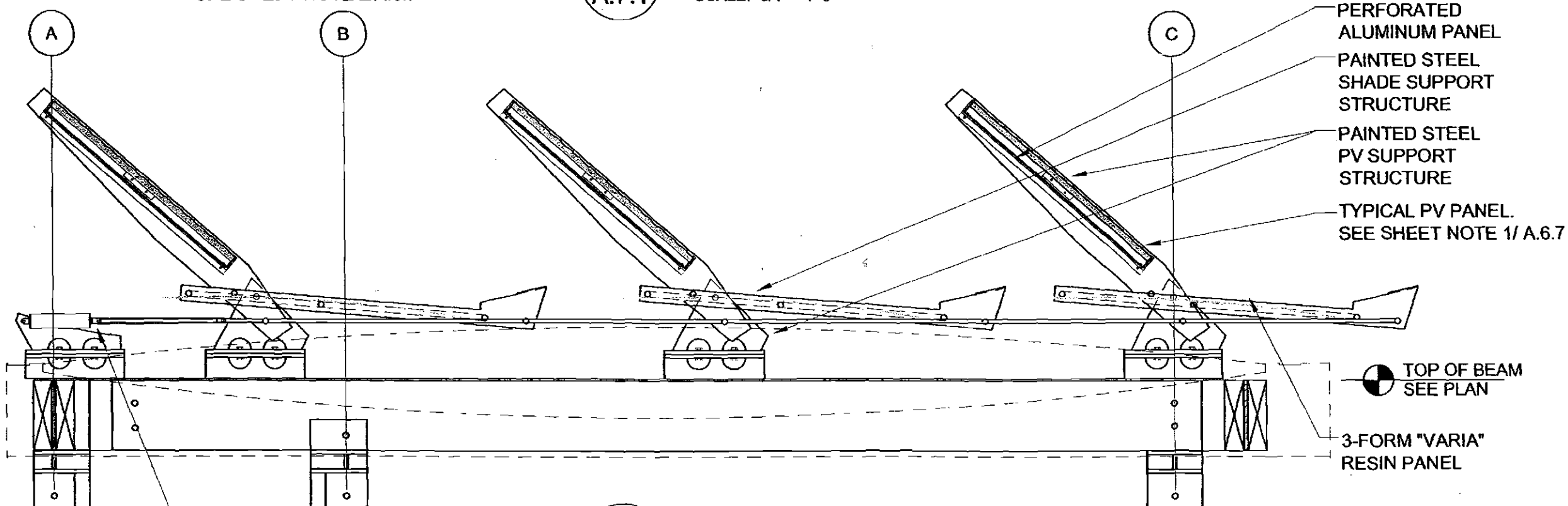
scale: as noted

A.7.0

PHOTOVOLTAIC SUPPORTS



2 TYP. SECTION AT FULLY RETRACTED SHADE CONDITION
A.7.1 SCALE: 3/4" = 1'-0"



1 TYP. SECTION AT FULLY EXTENDED SHADE CONDITION
A.7.1 SCALE: 3/4" = 1'-0"

date	
description	
revision	

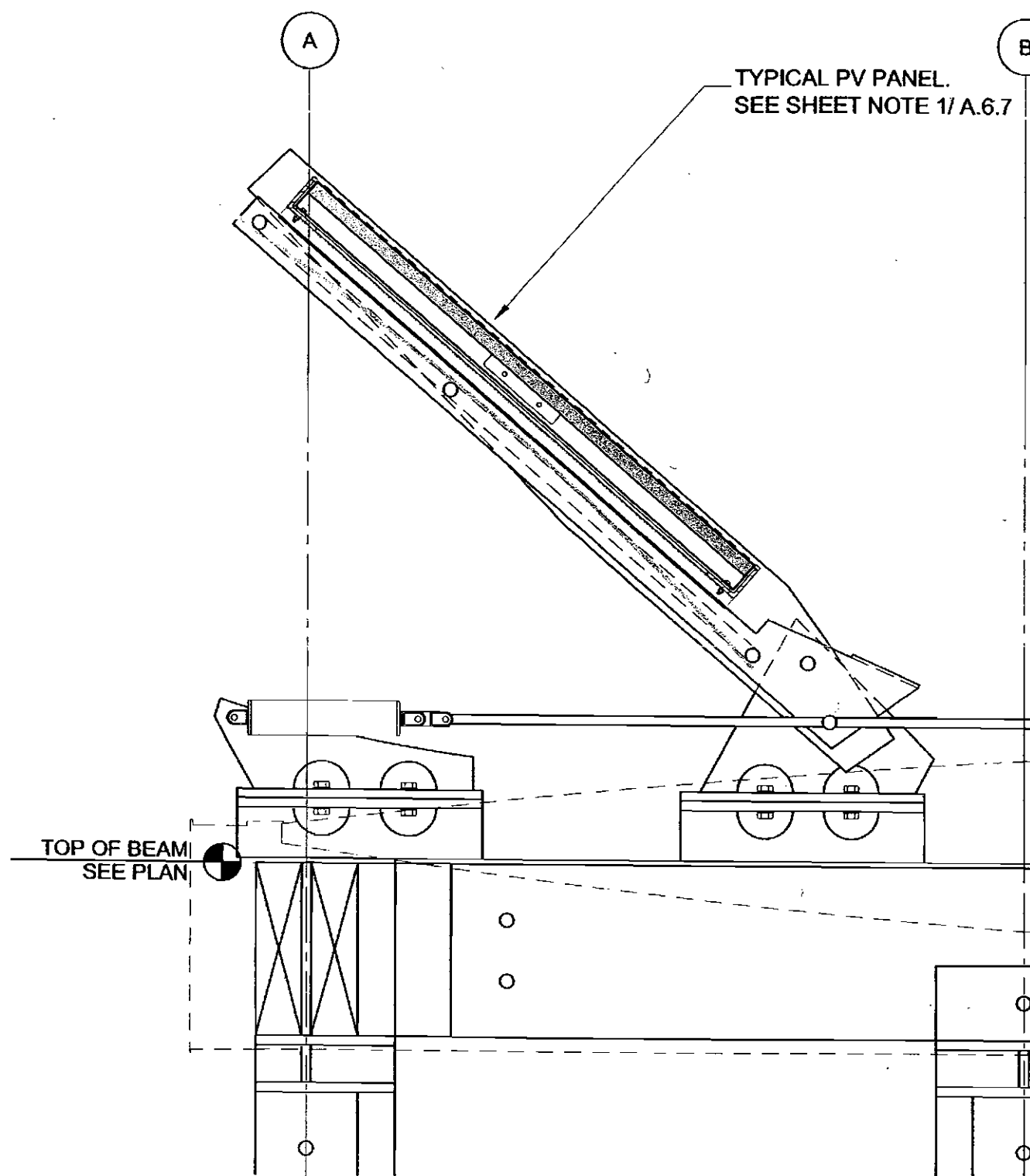
consultants	

prepared by:
Jamie O'Kelley
date drawn:
12.04.06
03.03.07

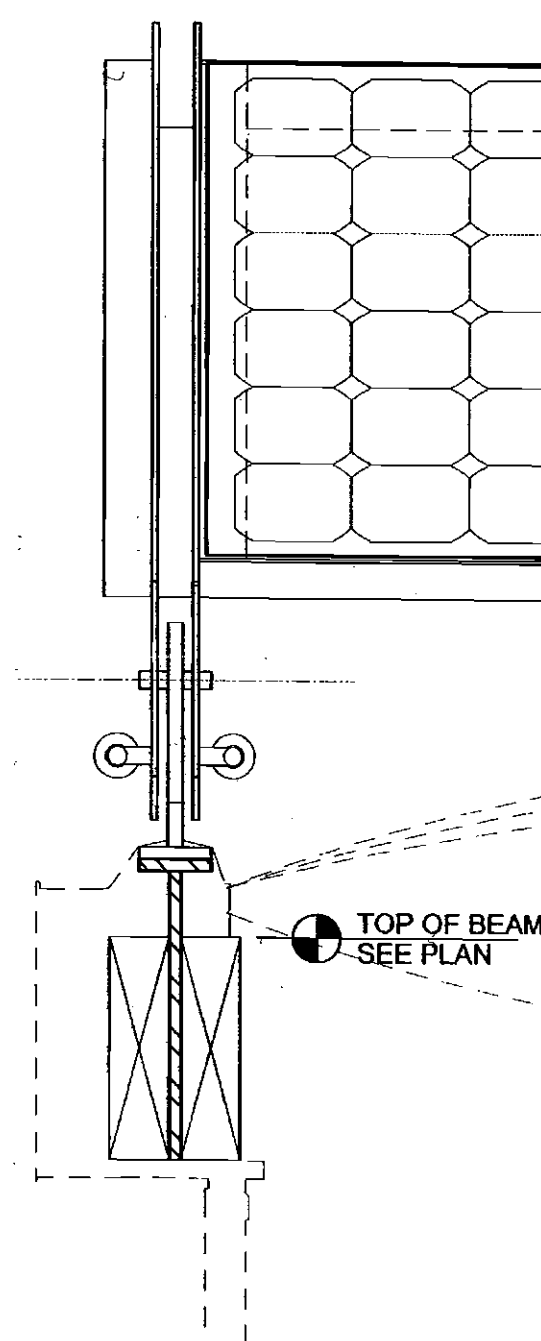
scale: as noted

A.7.1

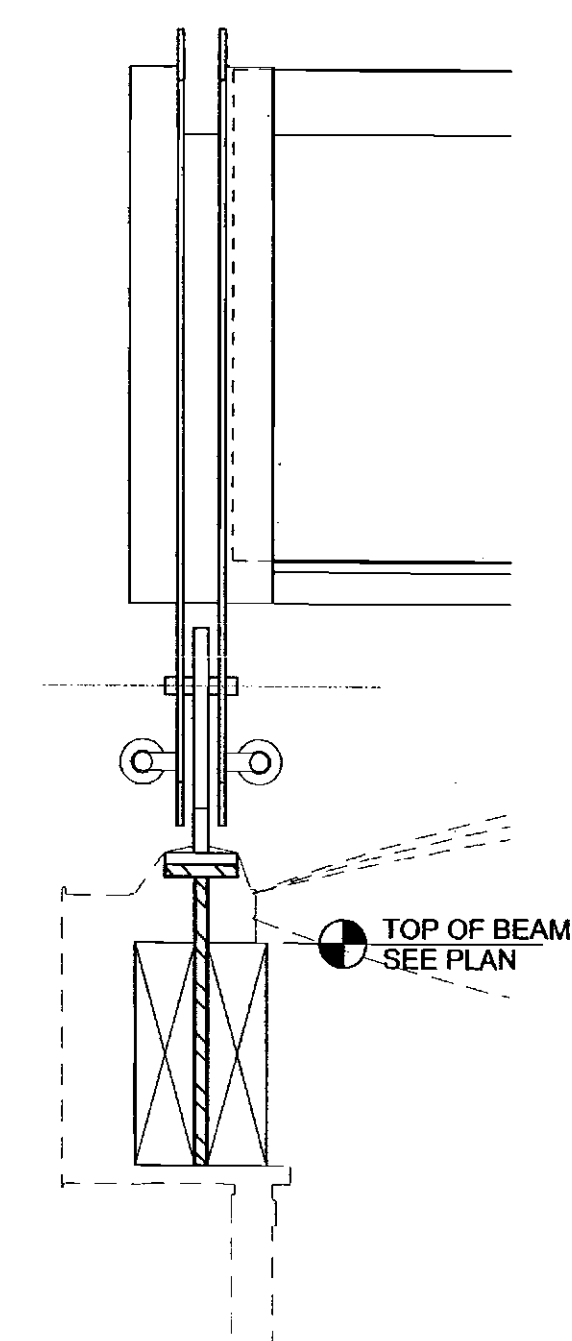
PHOTOVOLTAIC SUPPORTS



3 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"



2 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"



1 SECTION
A.7.2 SCALE: 1-1/2" = 1'-0"

date	
description	
revision	

consultants:

prepared by:
Jamie O'Kelley
date drawn:
12.04.06
03.03.07

scale: as noted

A.7.2

PHOTOVOLTAIC SUPPORTS

date

description

revision

consultants:

prepared by:

Jamie O'Kelley

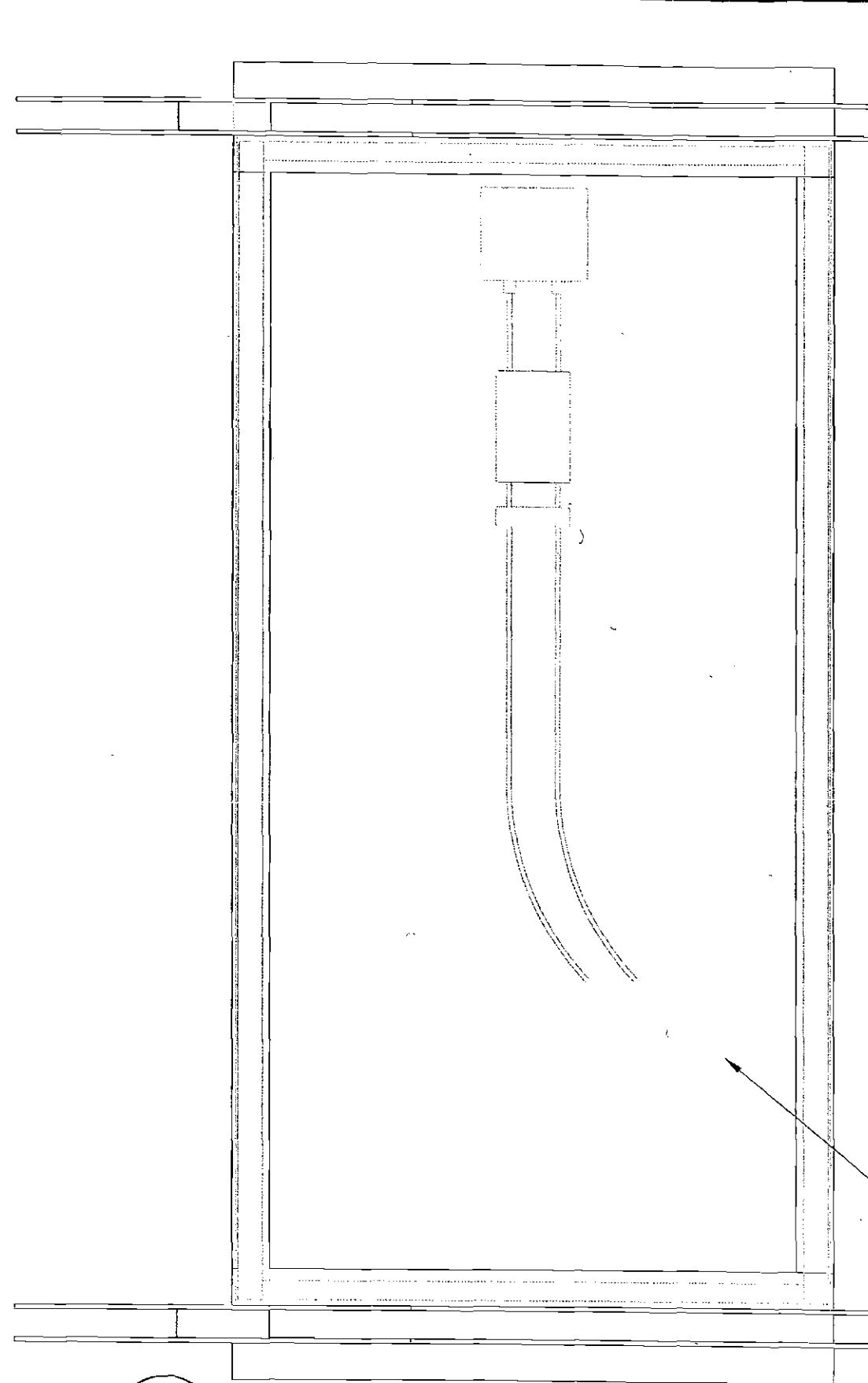
date drawn:

12.04.06

scale: as noted

A.7.3

PHOTOVOLTAIC SUPPORTS

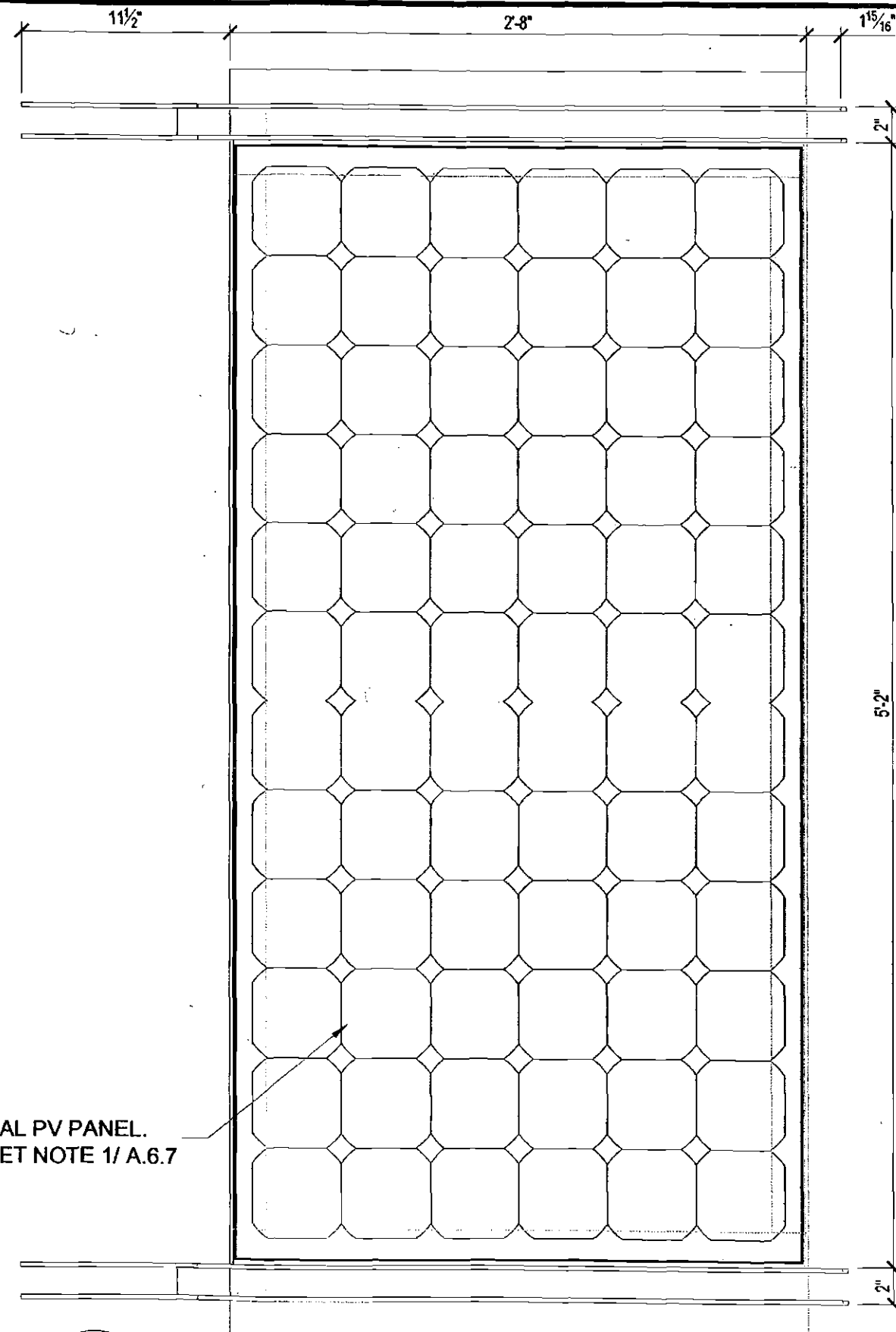


2
A.7.3

DETAIL

AT TYP. PV MODULE REAR

SCALE: 1-1/2" = 1'-0"



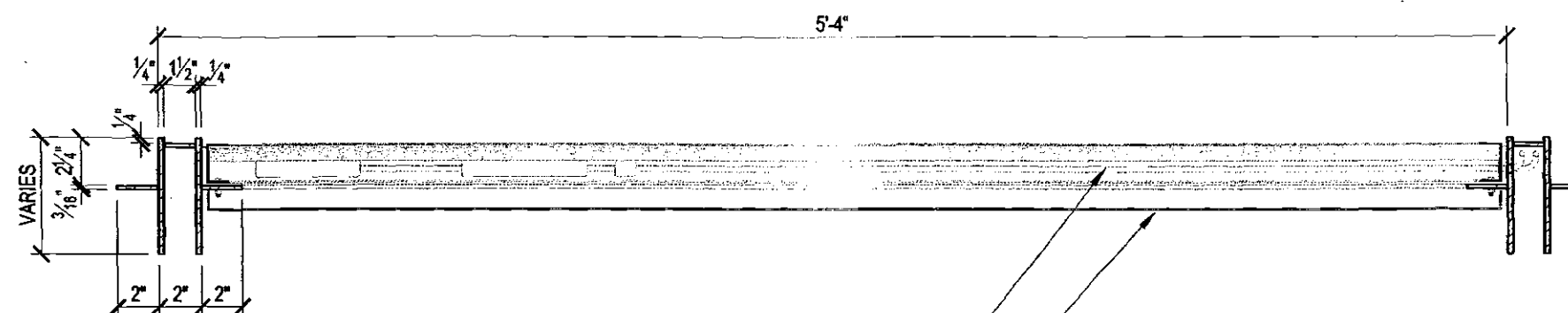
1
A.7.3

DETAIL

AT TYP. PV MODULE FRONT

SCALE: 1-1/2" = 1'-0"

TYPICAL PV PANEL.
SEE SHEET NOTE 1/ A.6.7



TYPICAL PV PANEL.
SEE SHEET NOTE 1/ A.6.7

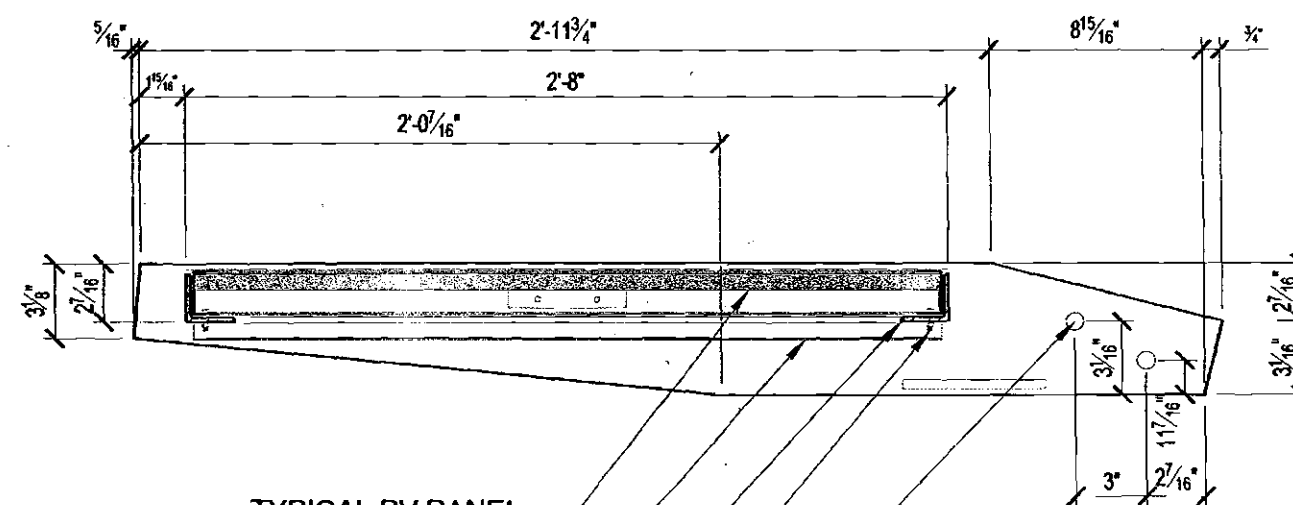
PERFORATED ALUMINUM PANEL

2
A.7.5

DETAIL

TYP. PV MODULE

SCALE: 1-1/2" = 1'-0"



TYPICAL PV PANEL.
SEE SHEET NOTE 1/A.6.7

PERFORATED ALUMINUM
METAL PANEL

L3x3x3/16 (TYP.)

1/2" Ø BOLT (TYP.)

13/16" Ø HOLE
(TYP.)

1
A.7.4

DETAIL

TYP. PV MODULE

SCALE: 1-1/2" = 1'-0"

date

description

revision

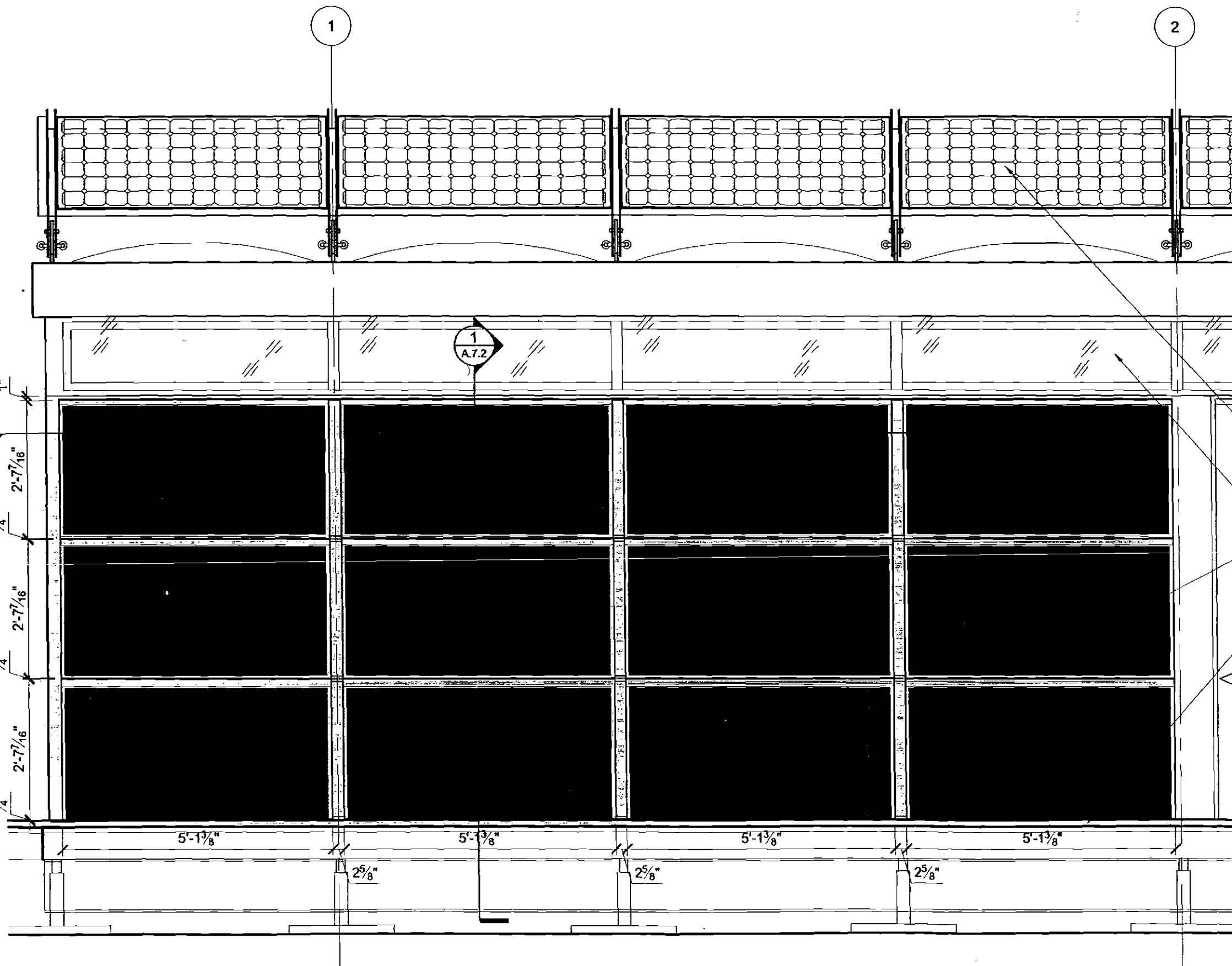
consultants:

prepared by:
Jamie O'Kelley
date drawn:
12.04.06

scale: as noted

A.7.4

PHOTOVOLTAIC SUPPORTS



10'-6"
TOP OF STEEL

8'-0"
TOP OF SILL

SPR-220 PV MODULE
5'-1 3/8" x 2'-7 7/16"
CUSTOM RACKING SYSTEM
(TYP. OF 4)

CLERESTORY GLAZING

SPR-215-BLK PV MODULE
5'-1 3/8" x 2'-7 7/16"
SUNFRAME RACKING SYSTEM
(TYP. OF 12)

EXTERIOR WOOD DECK

0'-0"
FINISHED FLOOR

-2'-6"
GRADE

date	description	revision

consultants:

prepared by:

Tony Pledge

Joe Jamgochian

date drawn:

03.06.07

12.06.06

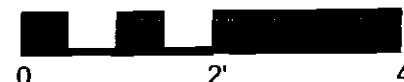
scale: 1/2" : 1' 0"

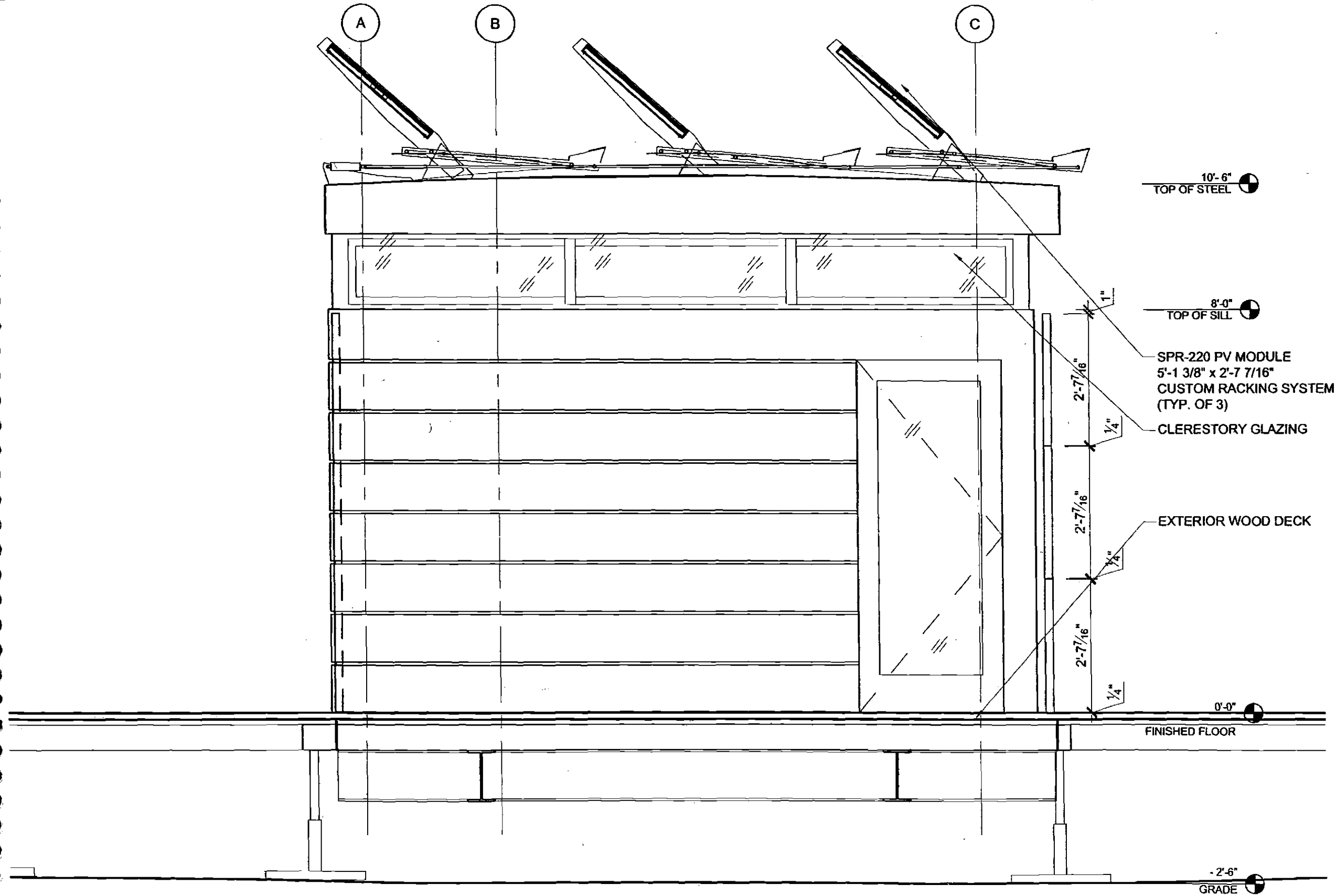
A.8.0

SOUTH ELEVATION - PV PANEL

1 SOUTH ELEVATION - PV PANEL

A.8.0

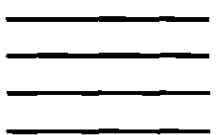




1 WEST ELEVATION
A.8.1

date	
description	
revision	

consultants:



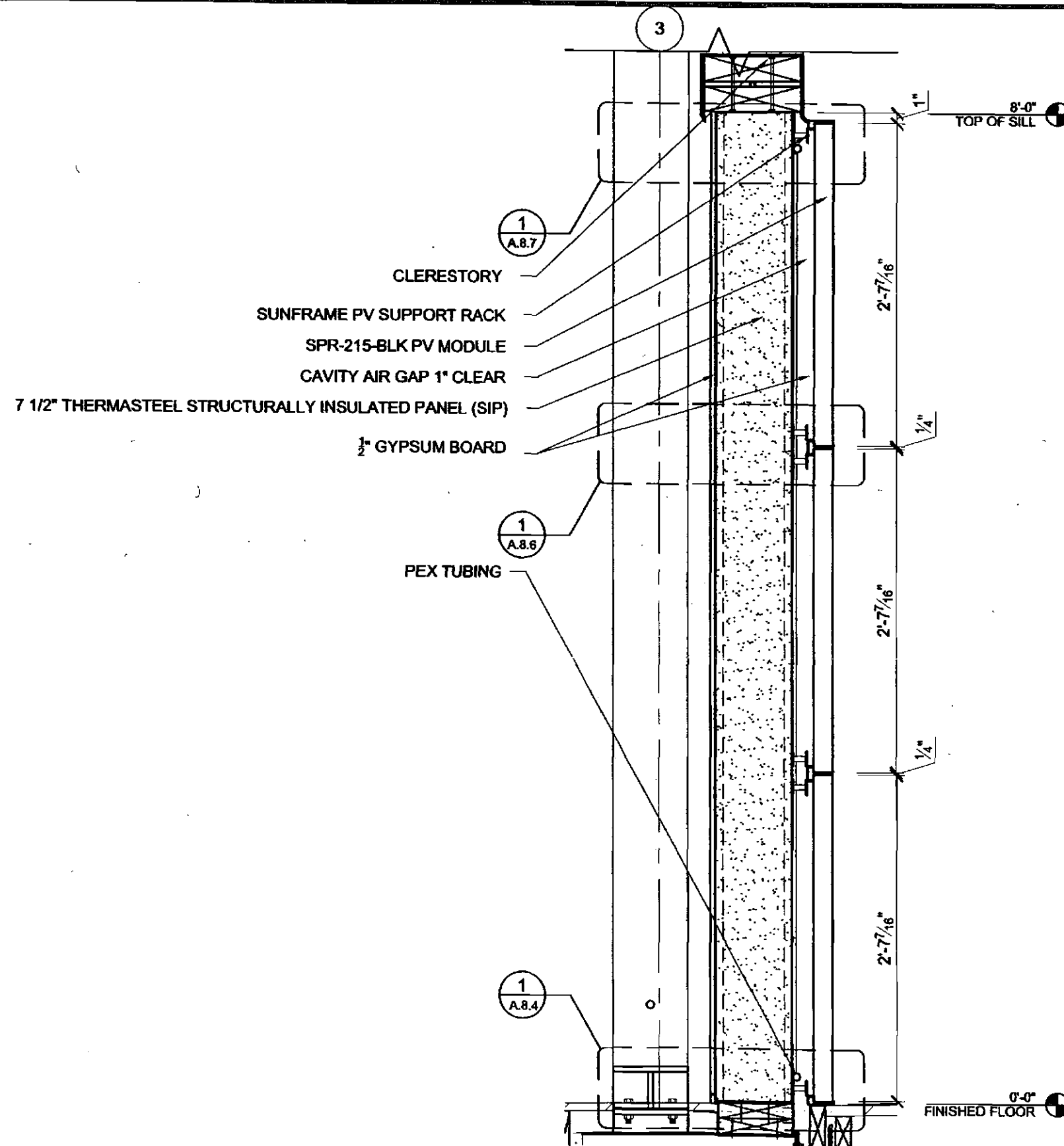
prepared by:
Tony Piede
Joe Jamgochian
date drawn:
03.06.07
12.05.06



scale: 1/2" : 1' 0"

A.8.1

WEST ELEVATION



1 SOUTH SIP WALL
A.8.2



date	
revision	
description	

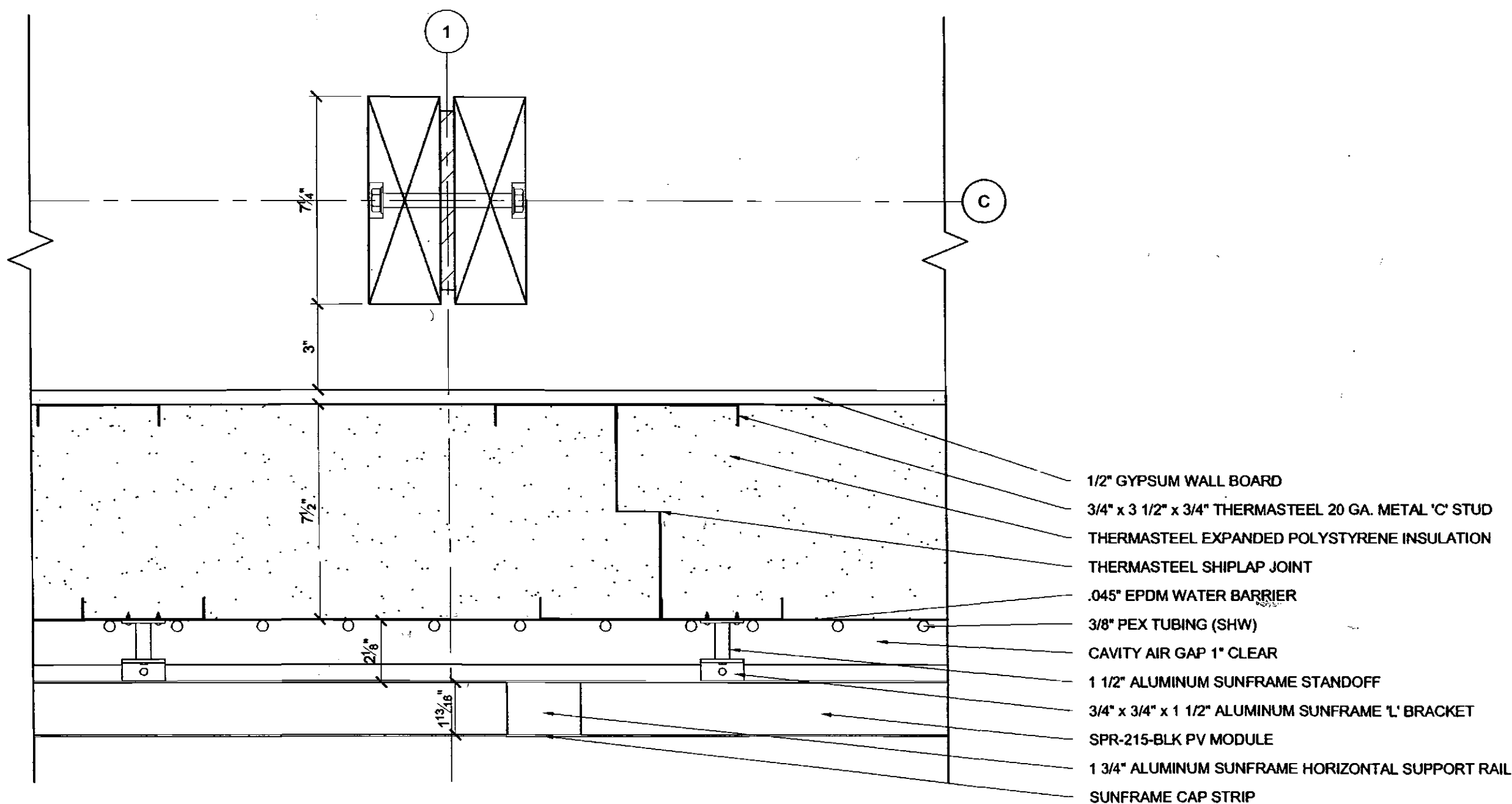
consultants:

prepared by:
Tony Plede
Joe Jamgochian
 date drawn:
03.06.07
12.05.06

scale: 1" : 1' 0"

A.8.2

WALL SECTION - SOUTH SIP WALL



- 1/2" GYPSUM WALL BOARD
- 3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD
- THERMASTEEL EXPANDED POLYSTYRENE INSULATION
- THERMASTEEL SHIPLAP JOINT
- .045" EPDM WATER BARRIER
- 3/8" PEX TUBING (SHW)
- CAVITY AIR GAP 1" CLEAR
- 1 1/2" ALUMINUM SUNFRAME STANDOFF
- 3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET
- SPR-215-BLK PV MODULE
- 1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL
- SUNFRAME CAP STRIP

1 PV CONNECTION PLAN
A.8.3



revision	description	date

consultants:

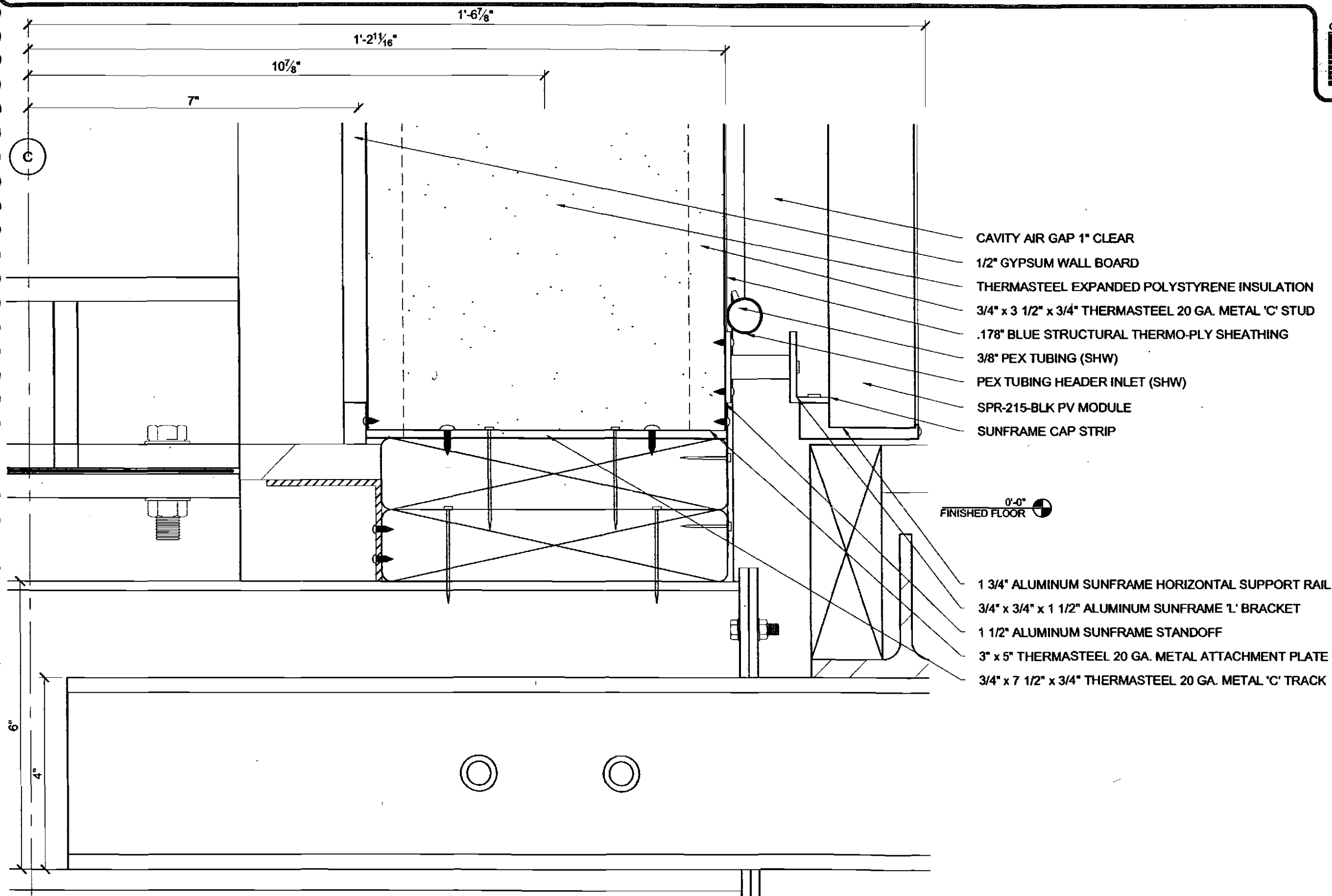
prepared by:
Tony Piede
Joe Jamgochian
date drawn:
03.06.07
12.05.06



scale: 3" : 1' 0"

A.8.3

SIP WALL DETAILS HORIZONTAL



date	description	revision

consultants:

prepared by:

Tony Piede

Joe Jamgochian

date drawn:

03.06.07

12.05.06

scale: 6" : 1' 0"

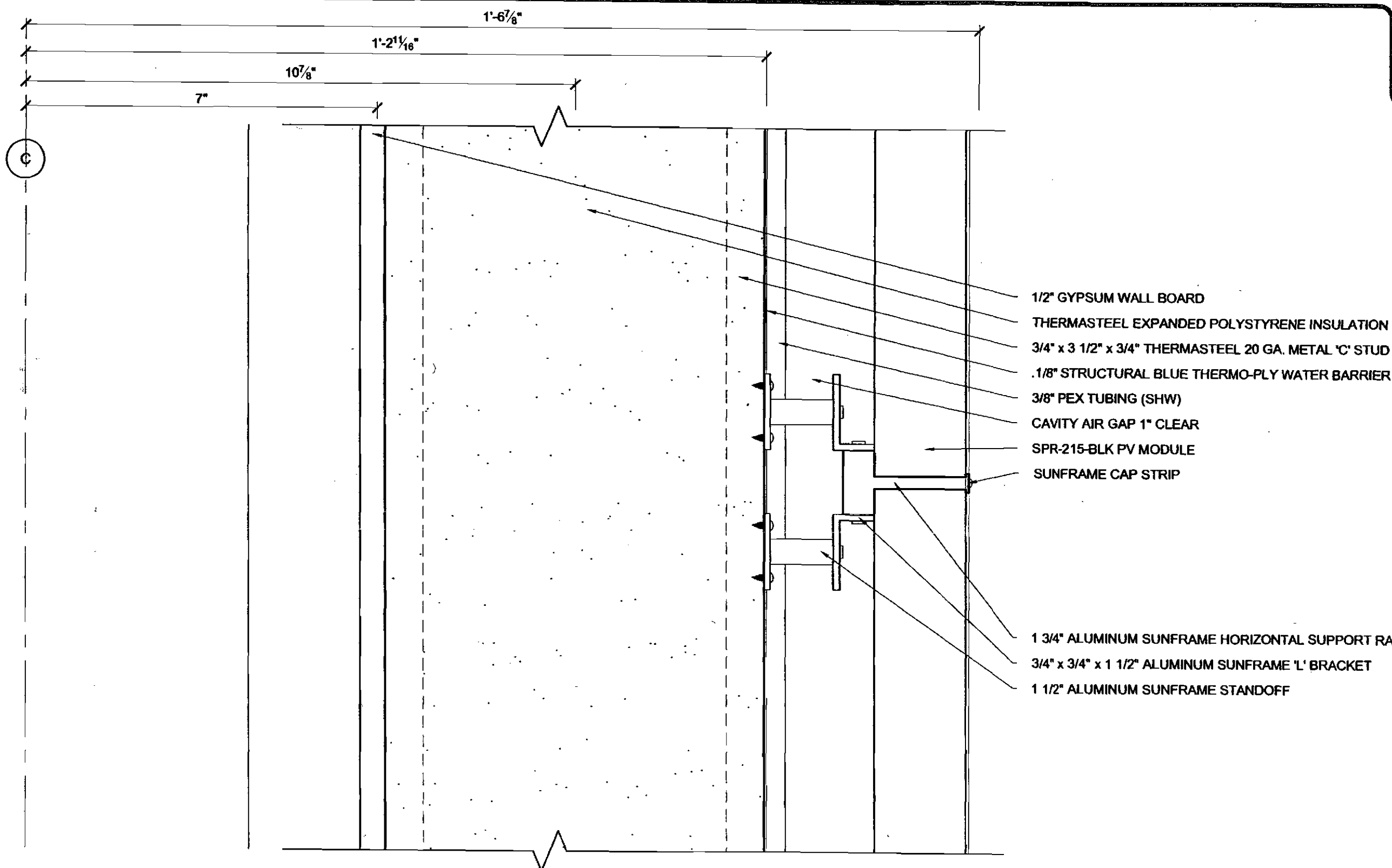
A.8.4

PV CONNECTION DETAILS VERTICAL

1 PV CONNECTION AT FLOOR

A.8.4

0 6" 1'



delta	description	revision

consultants:

prepared by:

Tony Piede

Joe Jamgochian

date drawn:

03.06.07

12.05.06

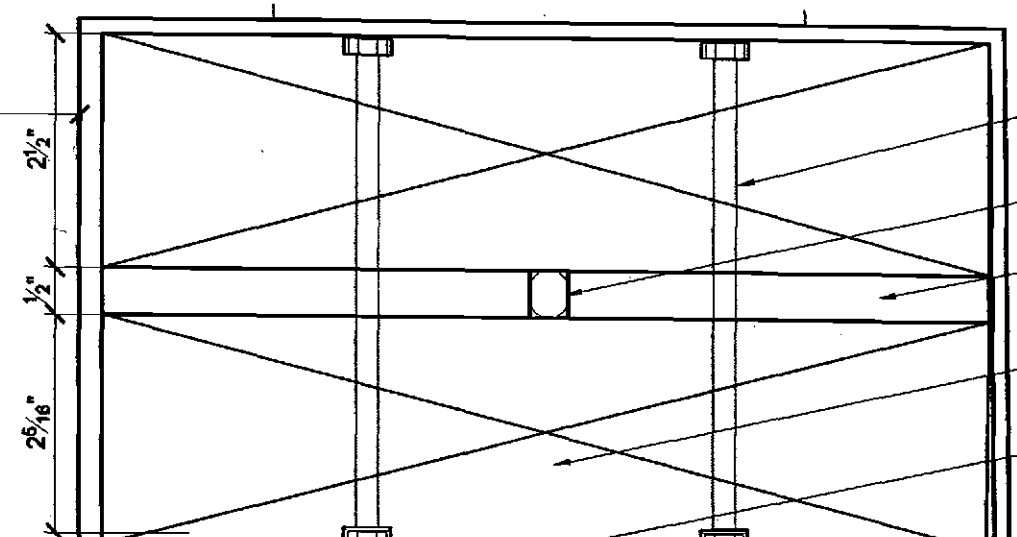
scale: 6" : 1' 0"

A.8.5

PV CONNECTION DETAILS



2 13/16"



1/2" DIA. COUNTERSUNK HEX-HEAD THRU BOLT (A36) @ 2'-8" o.c. (MAX)

RUBBER GASKET

A36 STEEL FLITCH PLATE

FLITCH SILL PLATE (SEE COMPOSITE BEAM SCHEDULE S.2.1)

3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' TRACK

ALUMINUM FLASHING

TOP VETILATION GAP 1"

8'-0" TOP OF SILL

1 3/4" ALUMINUM SUNFRAME HORIZONTAL SUPPORT RAIL

3/4" x 3/4" x 1 1/2" ALUMINUM SUNFRAME 'L' BRACKET

1 1/2" ALUMINUM SUNFRAME STANDOFF

SPR-215-BLK PV MODULE

SUNFRAME CAP STRIP

PEX TUBING HEADER EXHAUST (SHW)

CAVITY AIR GAP

3/8" PEX TUBING (SHW)

1/8" STRUCTURAL BLUE THERMO-PLY SHEATHING

3/4" x 3 1/2" x 3/4" THERMASTEEL 20 GA. METAL 'C' STUD

1/2" GYPSUM WALL BOARD

date	
description	
revision	

consultants:

prepared by:
Tony Pleda
Joe Jamgochian
date drawn:
03.06.07
12.05.06

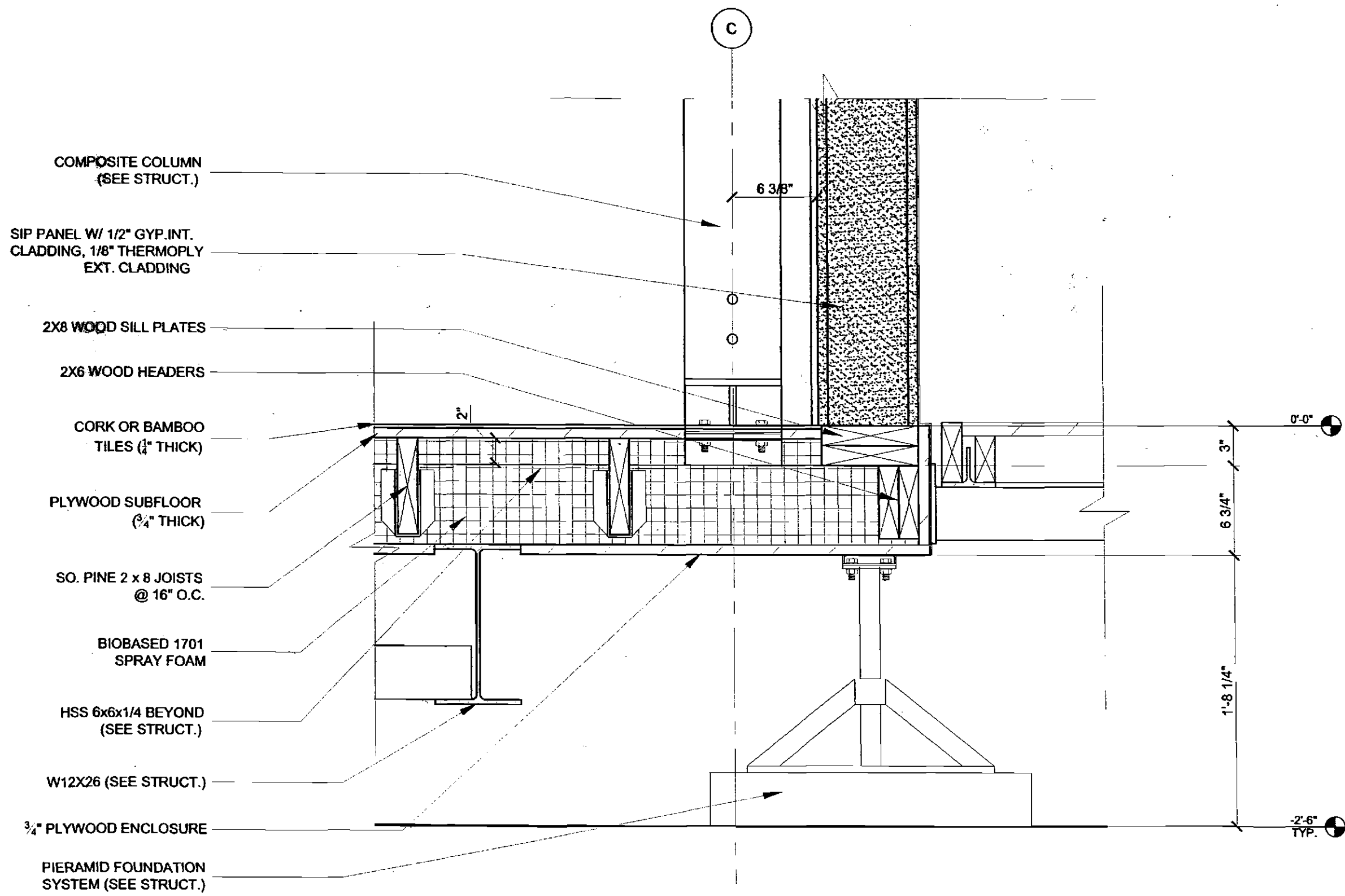
scale: 6" : 1' 0"

A.8.6

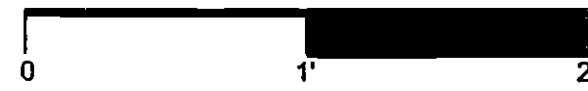
PV CONNECTION DETAILS

1 PV CONNECTION AT SILL
A.8.6





1 FLOOR CONSTRUCTION @
A.9.0 SIP WALL SOUTH FACE



date	description	revision

consultants:

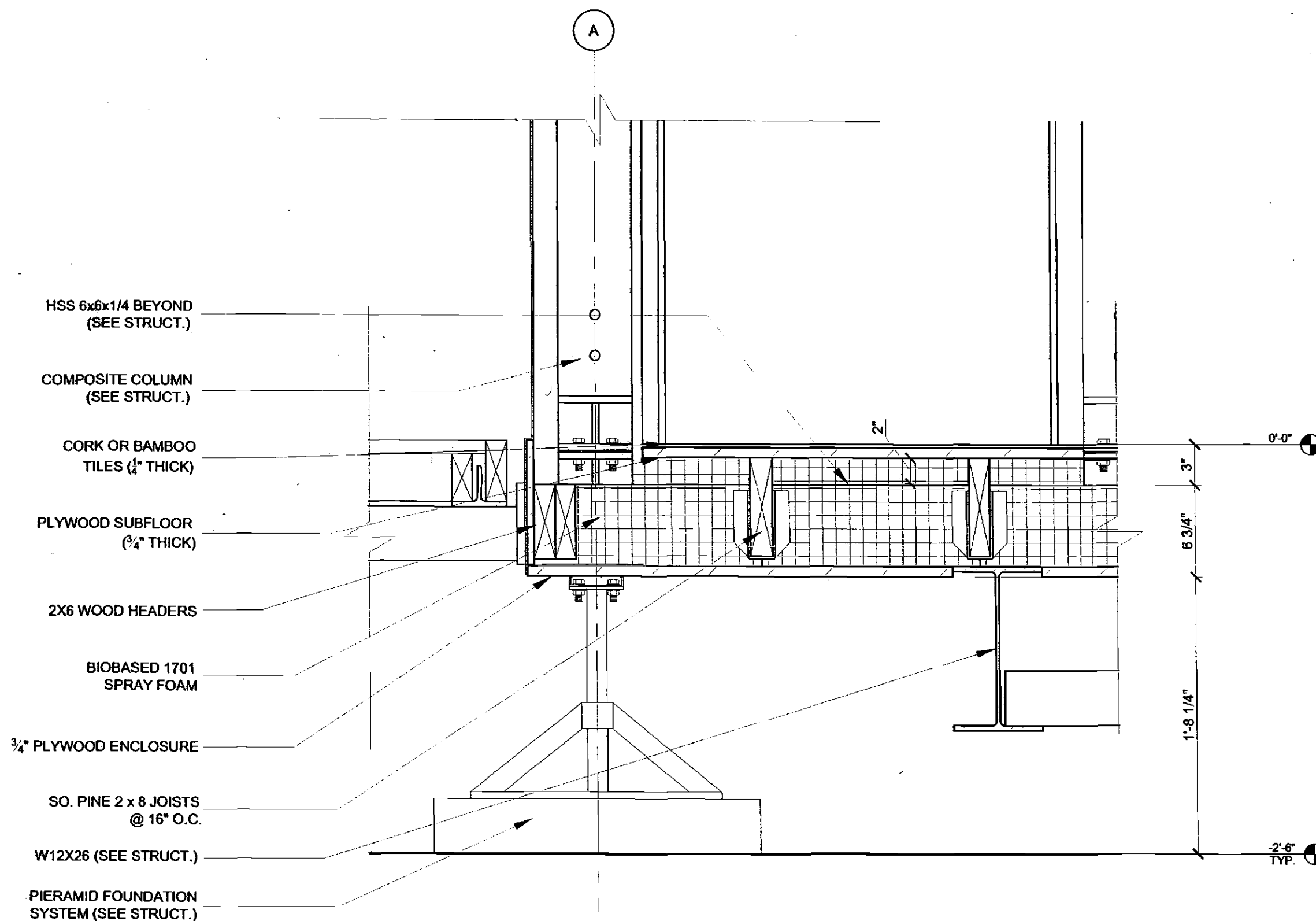
prepared by:
Jodi Bell-Quinn
C.VAN KLEY

date drawn:
12.04.06
3.06.07

scale: 1-1/2" : 1' 0"

A.9.0

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



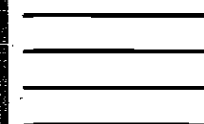
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A.9.1

FLOOR CONSTRUCTION @ SIP WALL NORTH FACE



date	description	revision

consultants:

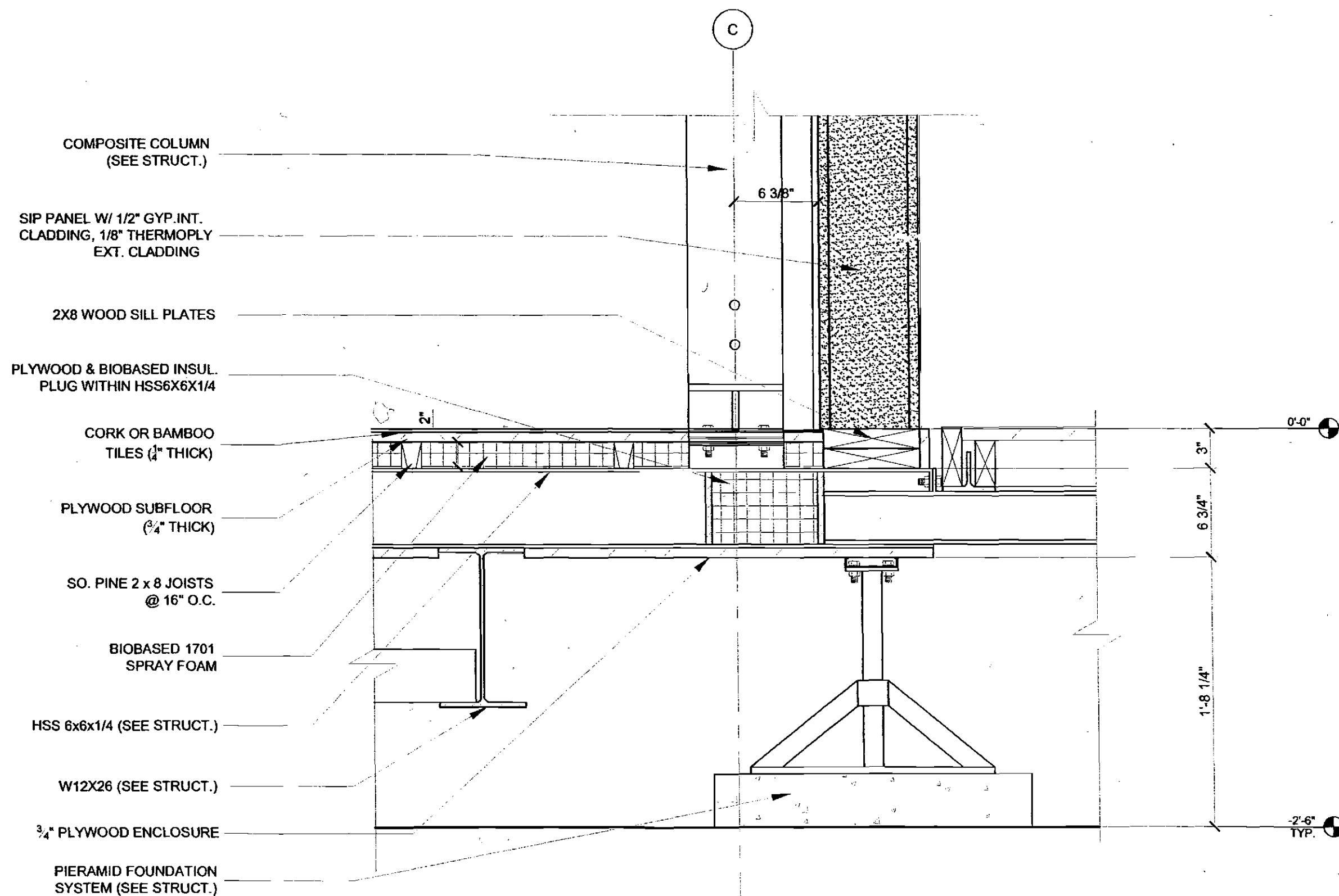


prepared by:
Jodi Bell-Quinn
C.VAN KLEY
date drawn:
12.04.06
3.06.07

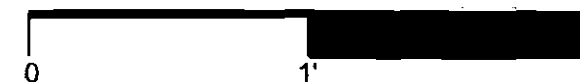
scale: 1-1/2" : 1' 0"

A.9.1

FLOOR CONSTRUCTION DETAILS (NORTH WALL)

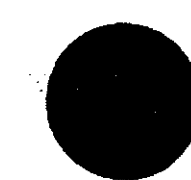


1 FLOOR CONSTRUCTION @
A.9.2 SIP WALL SOUTH FACE



date	description	revision

consultants:

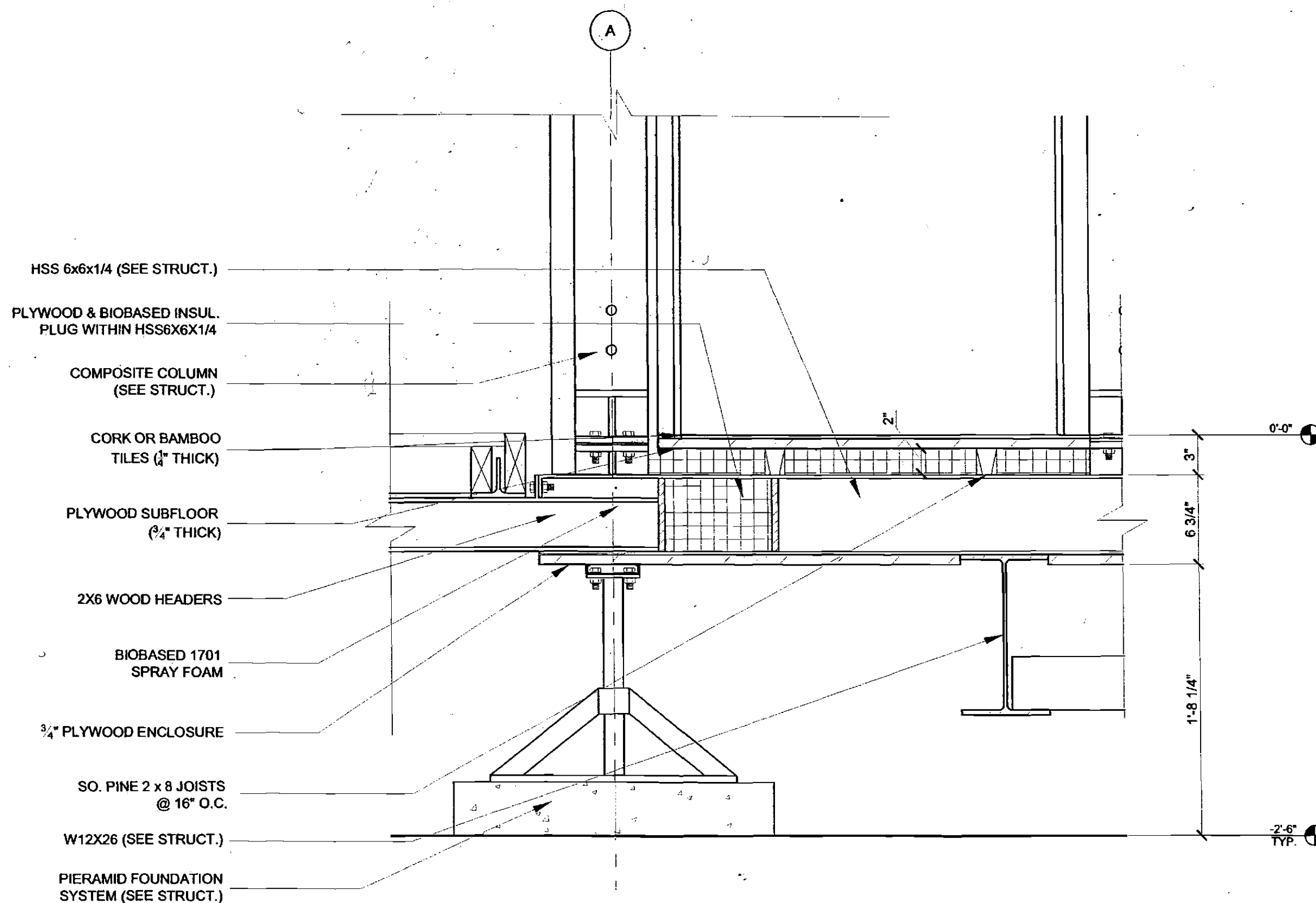


prepared by:
C.VAN KLEY
date drawn:
3.06.07

scale: 1-1/2" : 1' 0"

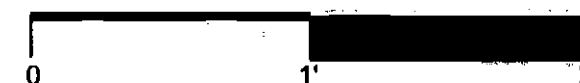
A.9.2

FLOOR CONSTRUCTION DETAILS (SOUTH WALL)



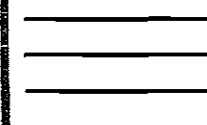
1
A.9.3

FLOOR CONSTRUCTION @ SIP WALL NORTH FACE



date	description	revision

consultants:

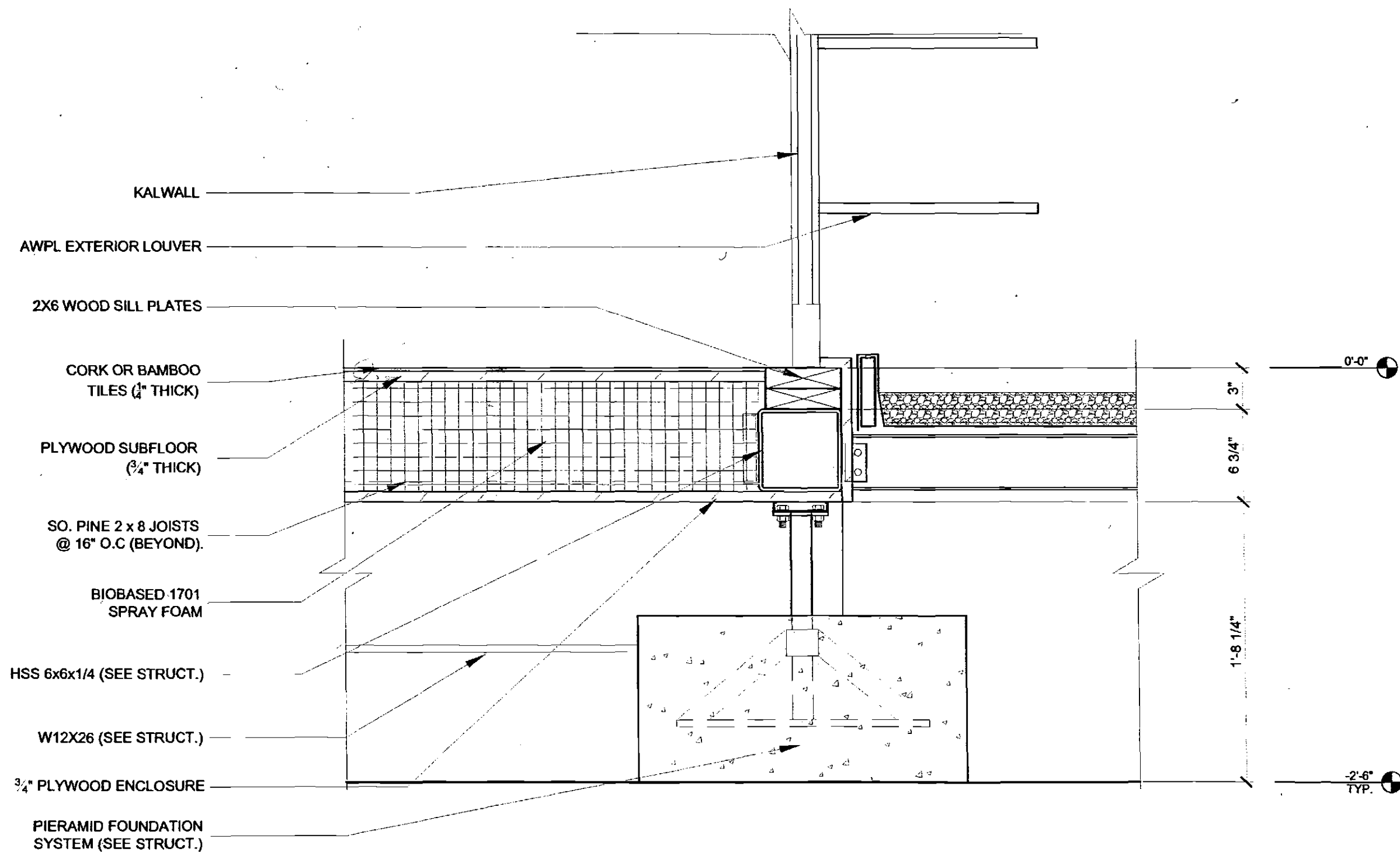


prepared by:
C.VAN KLEY
date drawn:
3.06.07

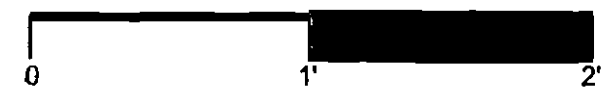
scale: 1-1/2" : 1' 0"

A.9.3

FLOOR CONSTRUCTION DETAILS (NORTH WALL)

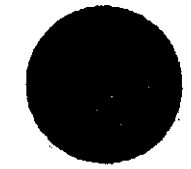


1 FLOOR CONSTRUCTION @
A.9.4 KALWALL EAST FACE



date	revision	description

consultants:

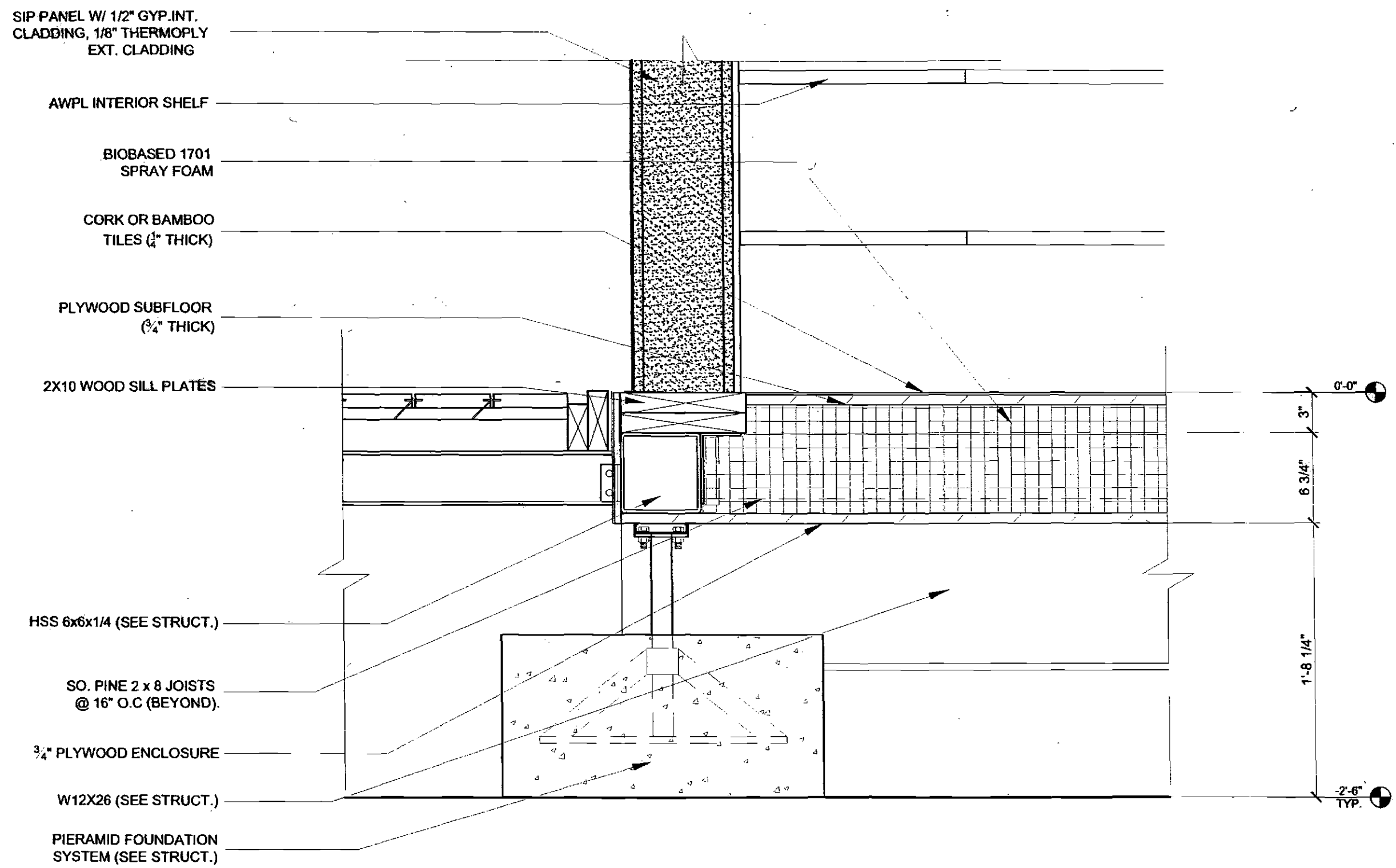


prepared by:
C.VAN KLEY
date drawn:
3.06.07

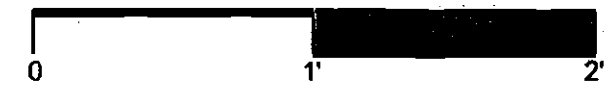
scale: 1-1/2" : 1' 0"

A.9.4

FLOOR CONSTRUCTION DETAILS (EAST WALL)

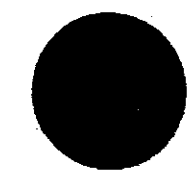


2 FLOOR CONSTRUCTION @
A.9.2 SIP WALL WEST FACE

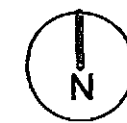


date	description	revision

consultants:



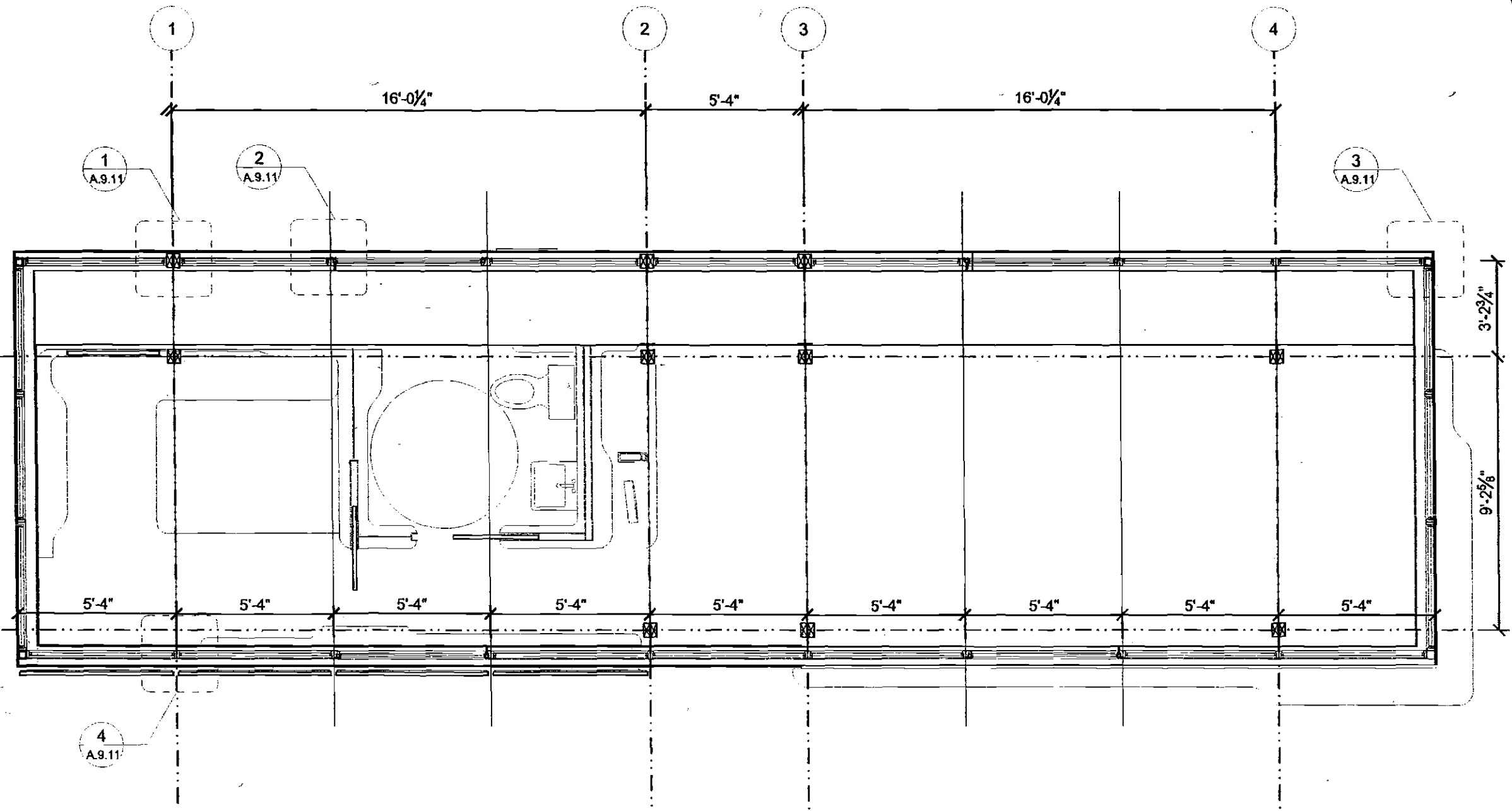
prepared by:
C.VAN KLEY
date drawn:
3.06.07



scale: 1-1/2" : 1' 0"

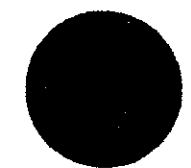
A.9.5

FLOOR CONSTRUCTION DETAILS (WEST WALL)

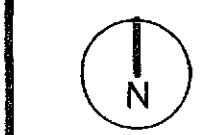


date	
description	
revision	

consultants:



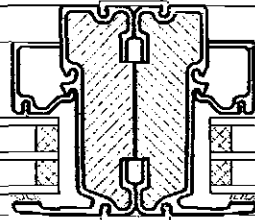
prepared by:
David Lott
date drawn:
03.06.07



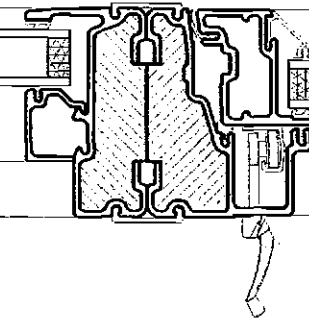
scale: 1/4" = 1'-0"

CLERESTORY DETAILS

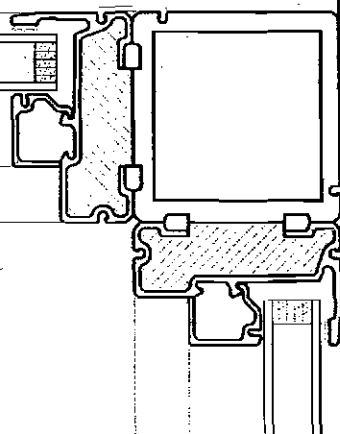
A.9.10



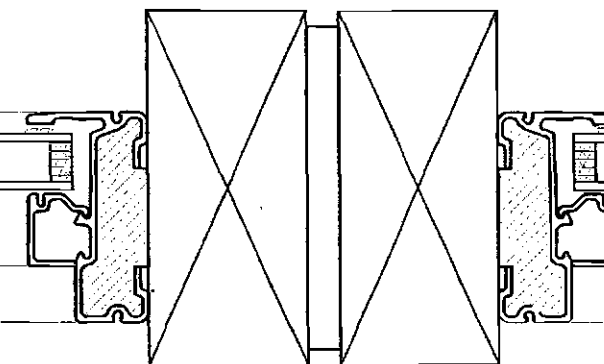
4 FIXED/FIXED WINDOW ABUTMENT
A.9.10 THERMASTEEL PANEL CORNER CONDITION



2 FIXED/AWNING WINDOW ABUTMENT
A.9.10 THERMASTEEL PANEL CORNER CONDITION



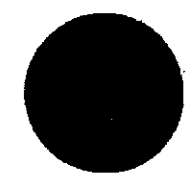
3 CORNER MULLION ABUTMENT
A.9.10 THERMASTEEL PANEL CORNER CONDITION



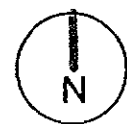
1 COLUMN/FIXED WINDOW ABUTMENT
A.9.10 THERMASTEEL PANEL CORNER CONDITION

date	
description	
revision	

consultants:



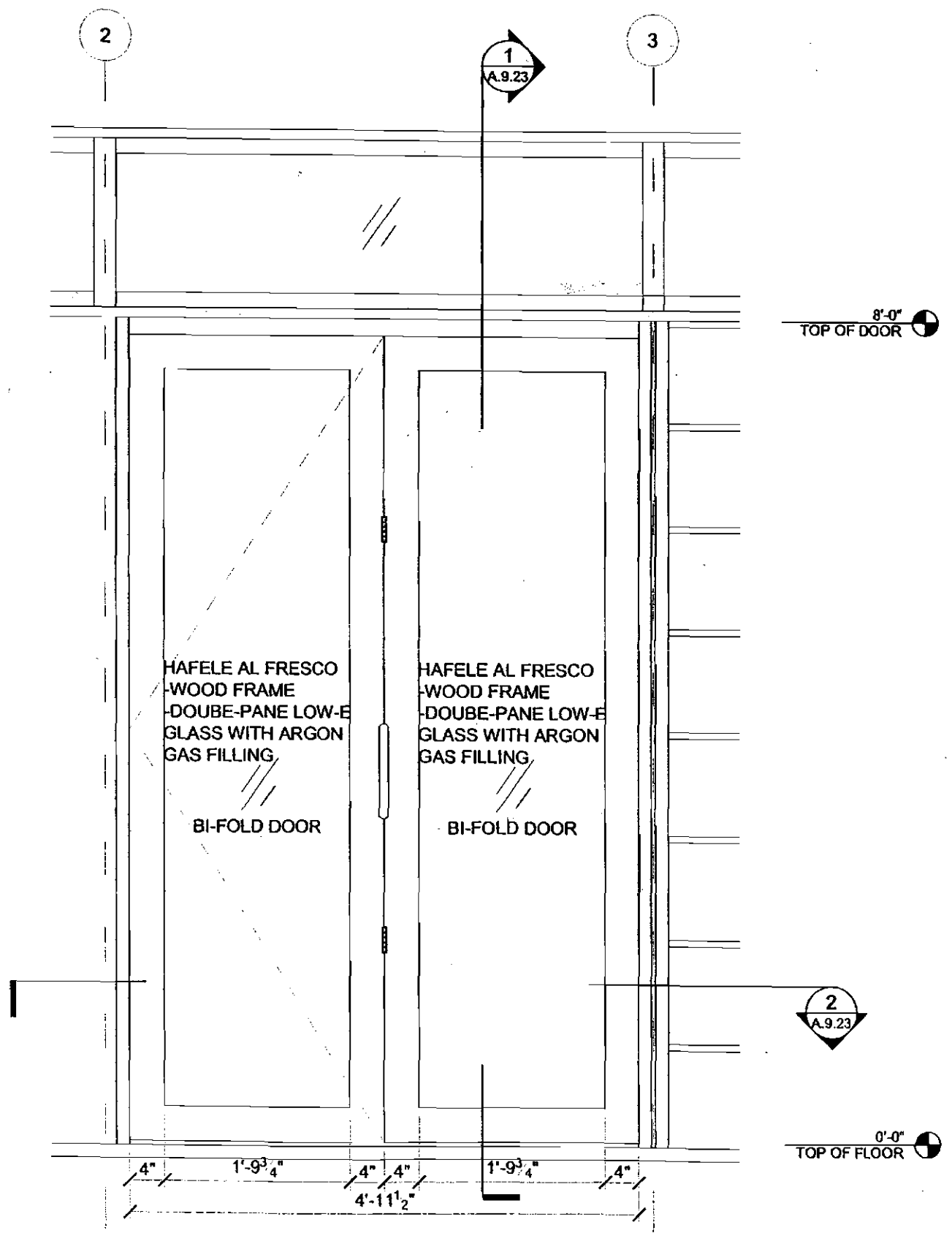
prepared by:
David Lott
date drawn:
03.06.07



scale: 4" = 1'-0"

A.9.11

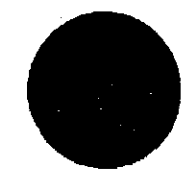
CLERESTORY DETAILS



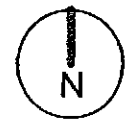
1 SOUTH EXTERIOR DOOR
A.9.20

date	
description	
revision	

consultants:	



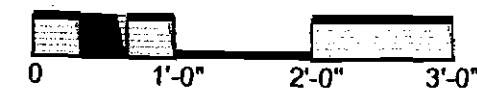
prepared by:
David Lott
Jodi Bell-Quinn
date drawn:
03.06.07

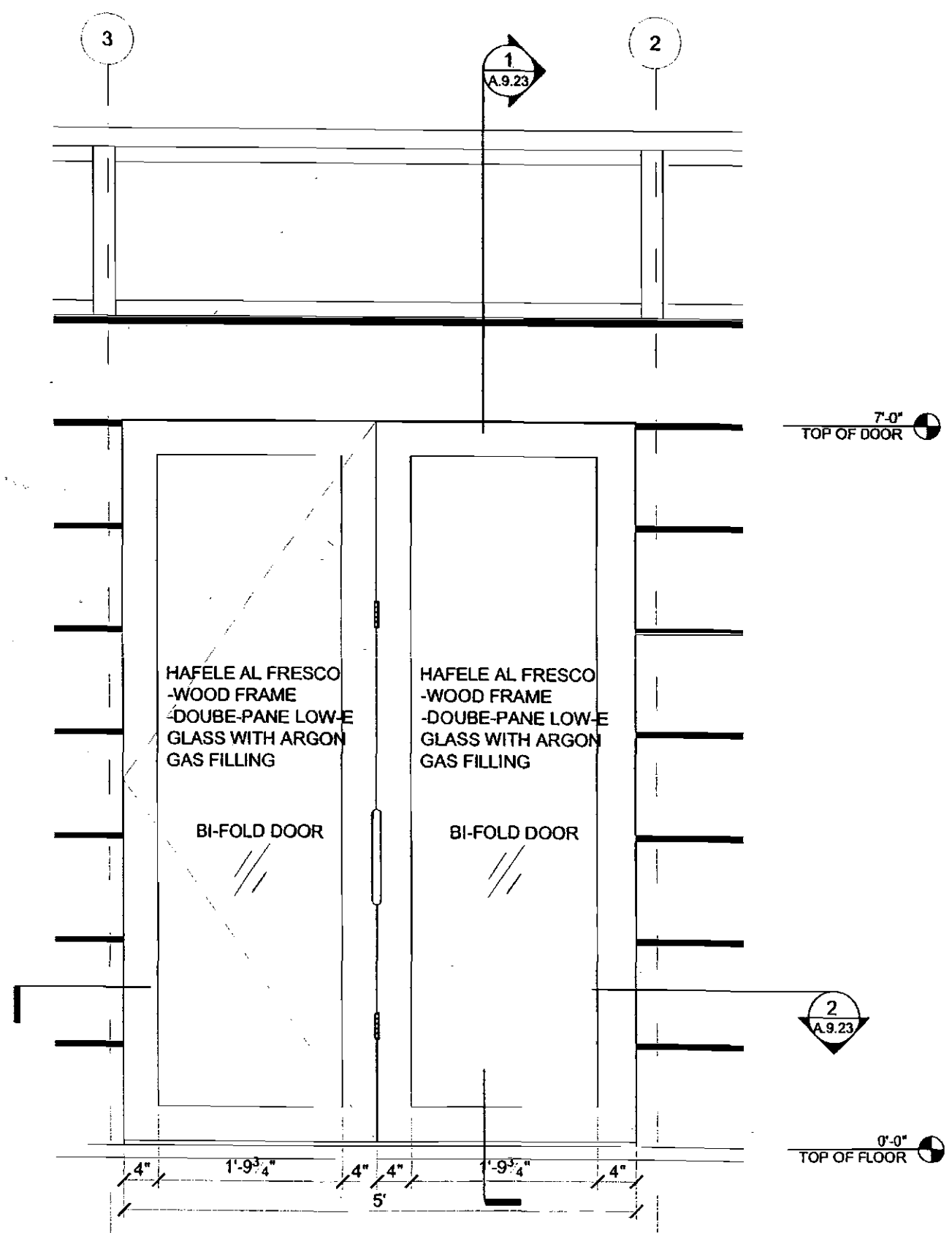


scale: 3/4" : 1' 0"

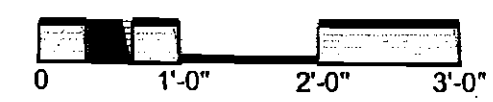
A.9.20

EXTERIOR DOOR ELEVATION - HAFELE AL FRESCO



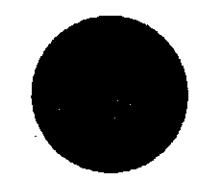


1 NORTH EXTERIOR DOOR
A.9.21

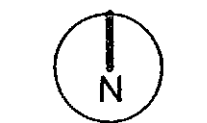


revision	description	date

consultants:



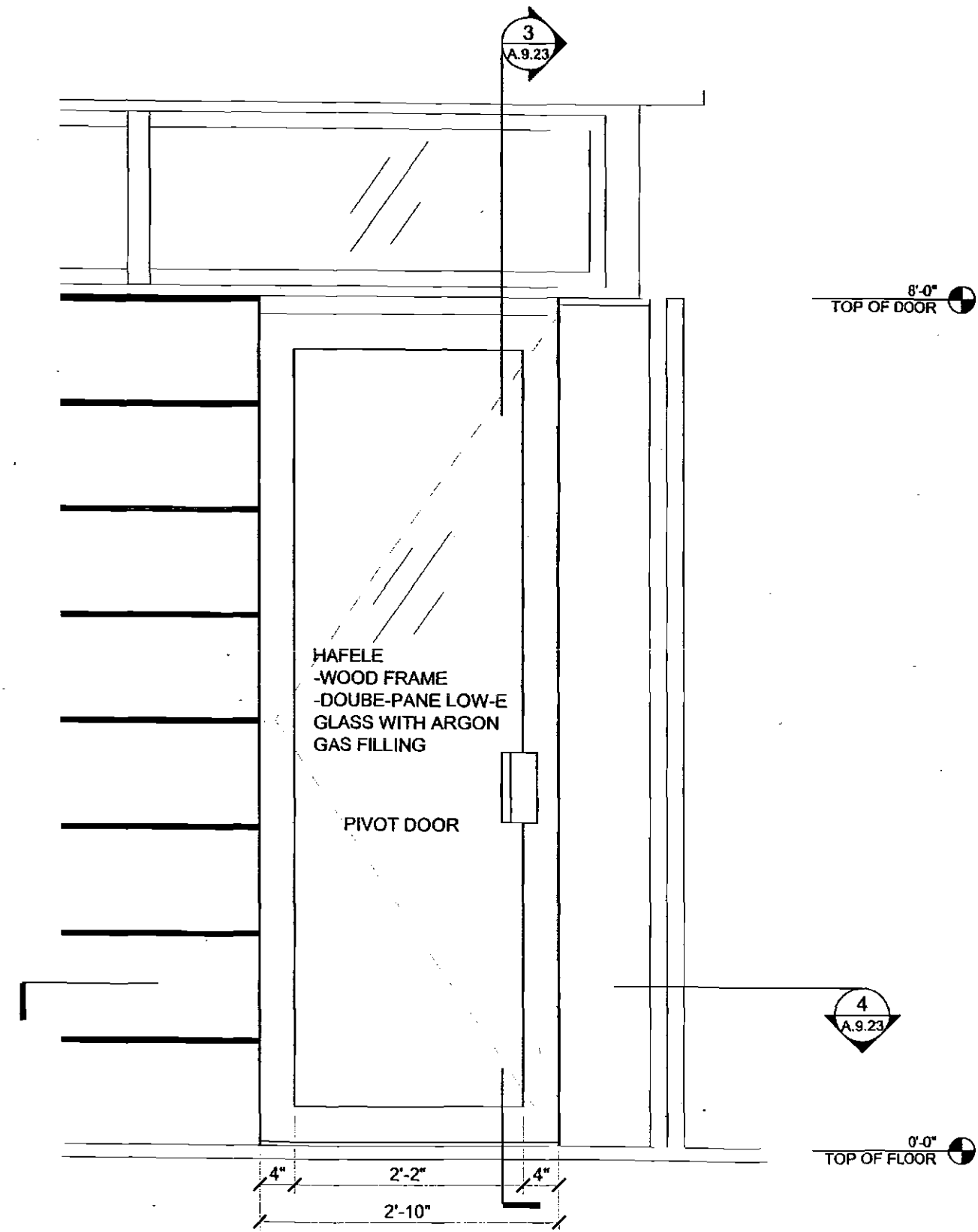
prepared by:
David Lott
Jodi Bell-Quinn
date drawn:
03.06.07



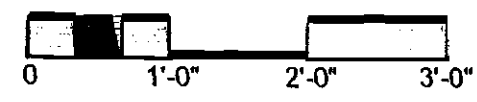
scale: 3/4" : 1' 0"

A.9.21

EXTERIOR DOOR ELEVATION - HAFELE AL FRESCO

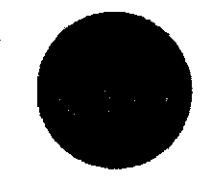


1 WEST EXTERIOR DOOR
A.9.21



revision	description	date

consultants:



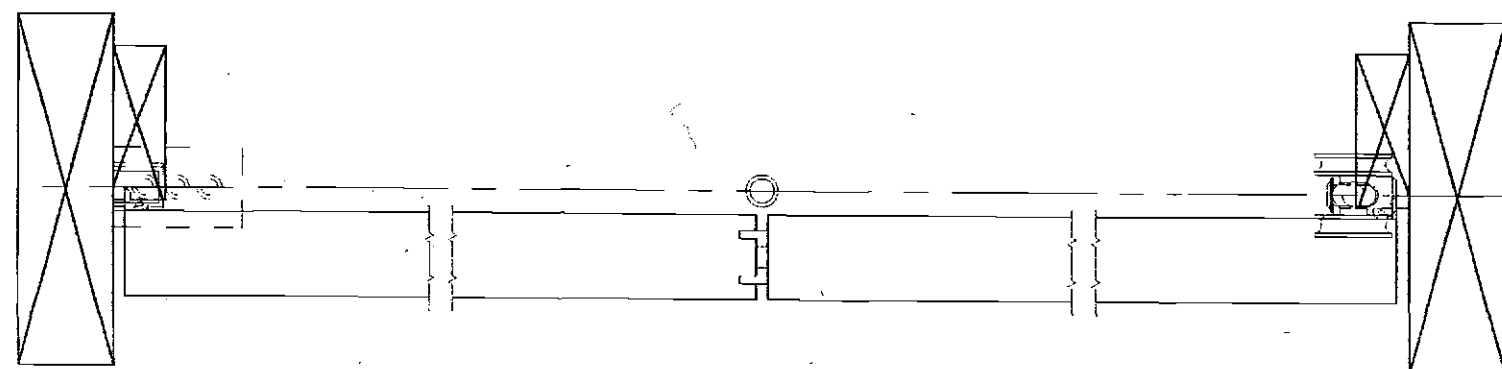
prepared by:
David Lott
Jodi Bell-Quinn

date drawn:
03.06.07

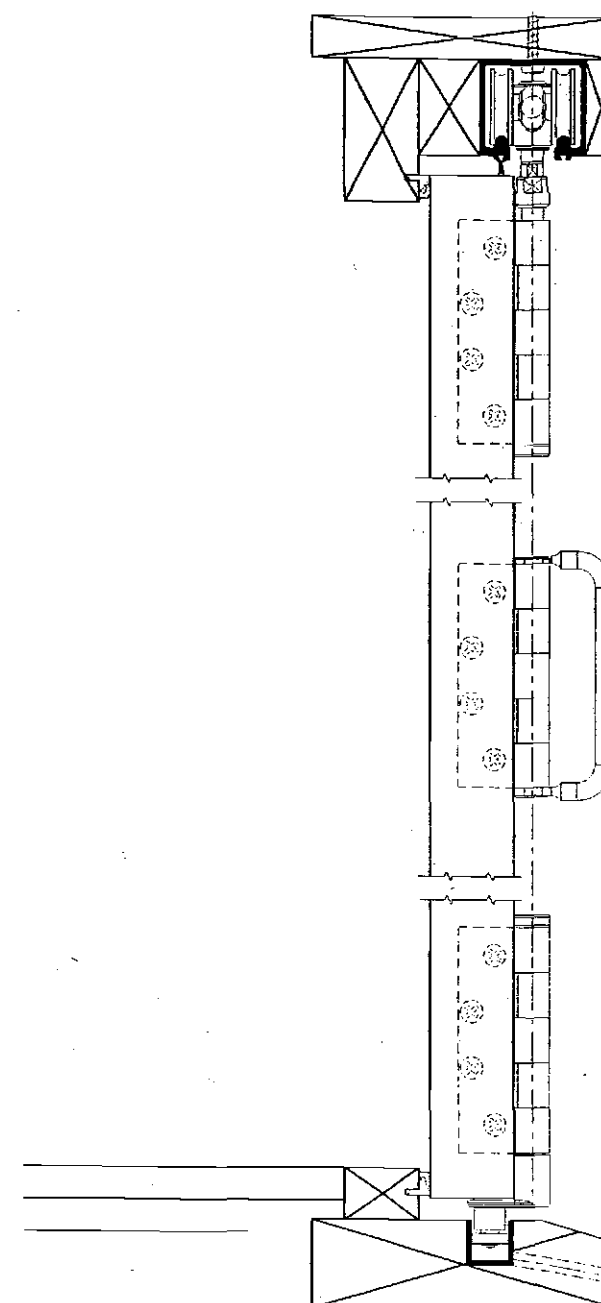
scale: 3/4" : 1' 0"

A.9.22

EXTERIOR DOOR ELEVATION - HAFELE



EXTERIOR



EXTERIOR

2

JAMB CONNECTION

A.9.23

1

HEAD/SILL CONNECTION

A.9.23

consultants:

prepared by:

David Lott

Jodi Bell-Quinn

date drawn:

03.06.07

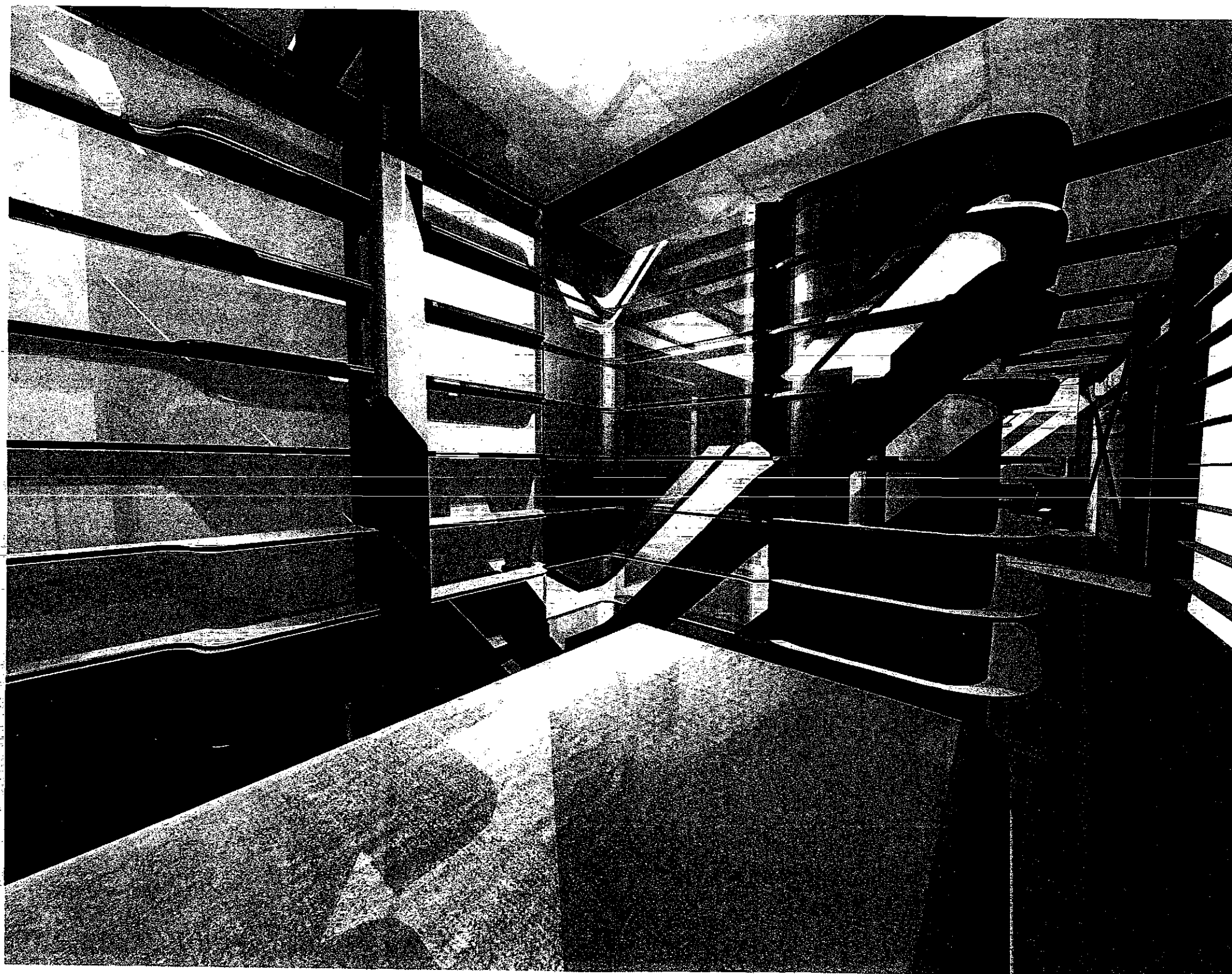


scale: 4" : 1' 0"

A.9.23

EXTERIOR DOOR DETAILS

date	description	revision



date	
description	
revision	

consultants:

prepared by:

Sarah Shelley

date drawn:

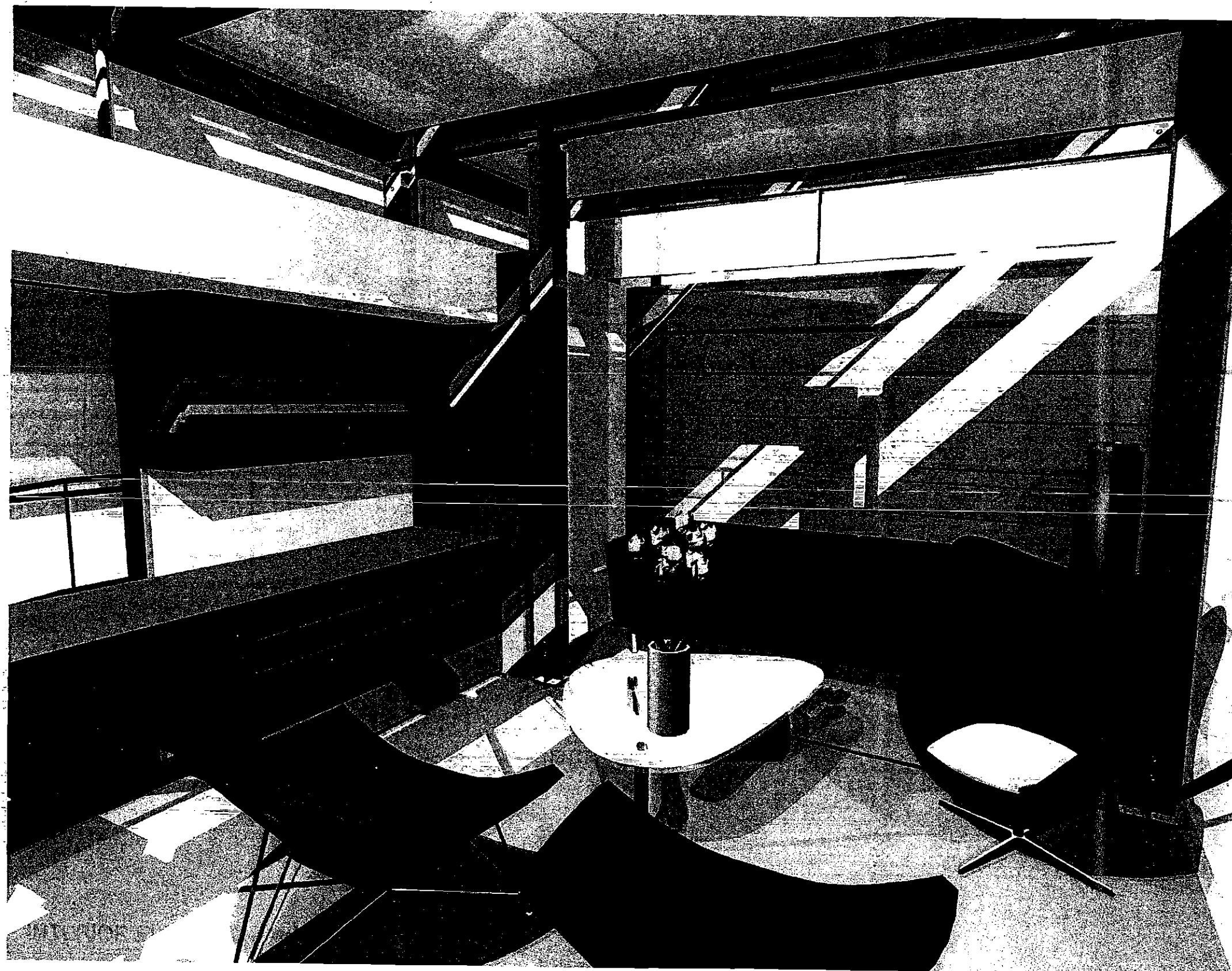
12.6.06



scale: 1/4" : 1' 0"

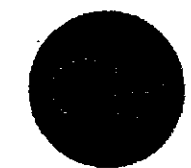
A.10.1

INTERIOR VIEW : bedroom



revision	description	date

consultants:

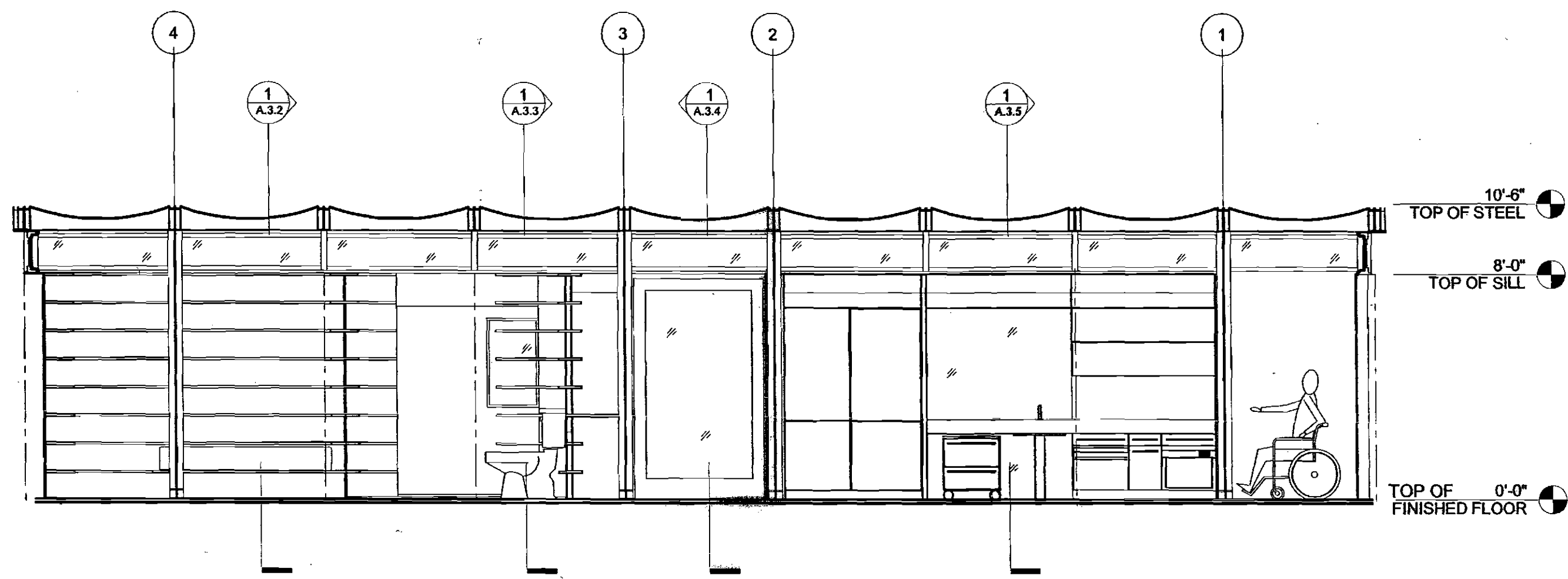


prepared by:
Sarah Shelley
date drawn:
12.6.06

scale: 1/4" : 1' 0"

A.10.2

INTERIOR VIEW : living space and kitchen



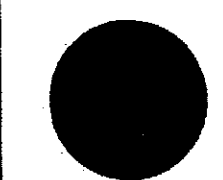
BEDROOM	BATHROOM	HOME OFFICE	ENTRANCE	KITCHEN	ENTERTAINMENT WALL
---------	----------	-------------	----------	---------	--------------------

1 INTERIOR ELEVATION: NORTH
A.10.4

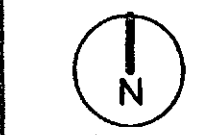


date	description	revision

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06

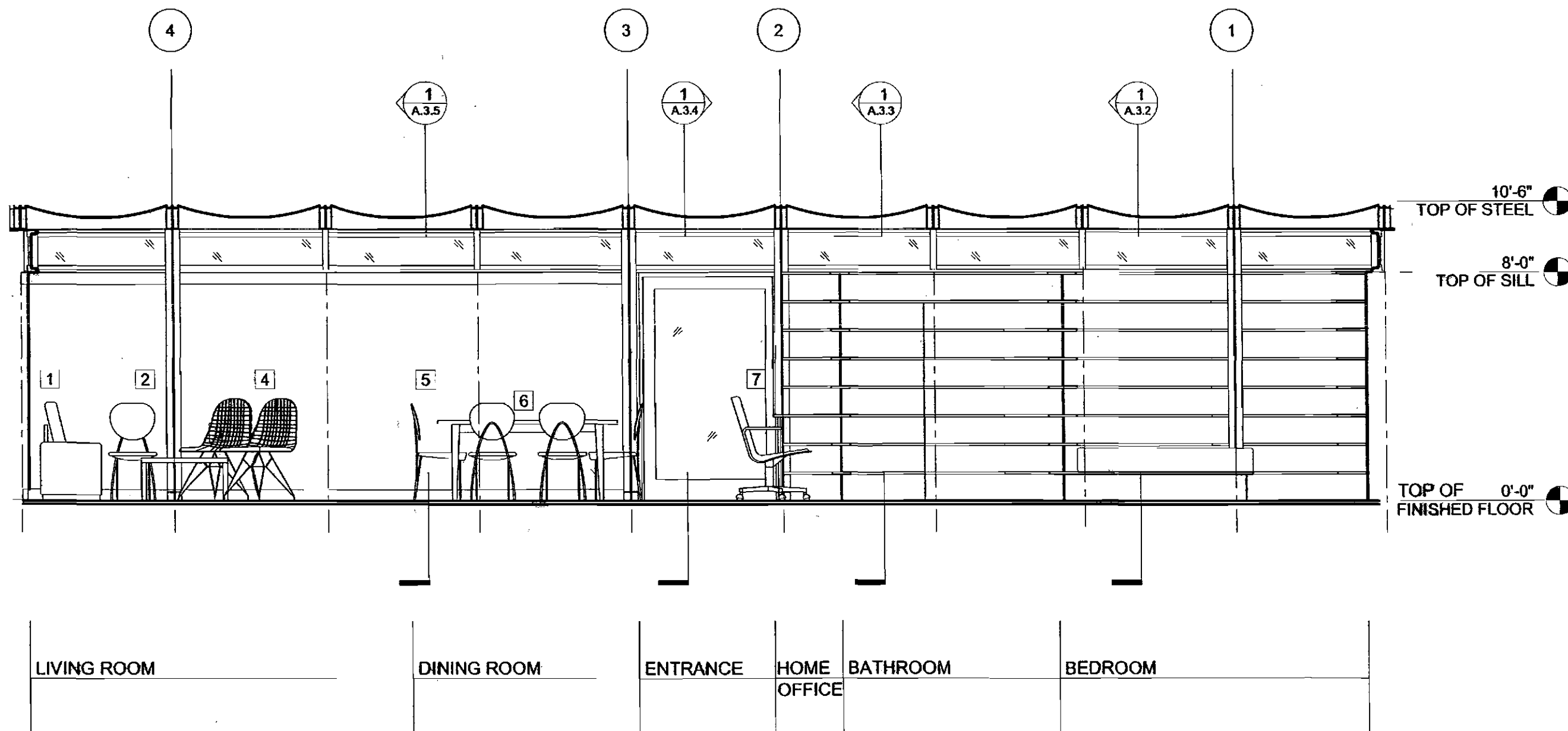


scale: 1/4" : 1' 0"

A.10.4

INTERIOR ELEVATION - LONGITUDINAL LOOKING NORTH

#	FURNITURE TYPE	MANUFACTURER
1	SOFA	HERMAN MILLER
2	LIVING ROOM CHAIR-1	HERMAN MILLER
3	COFFEE TABLE	HERMAN MILLER
4	LIVING ROOM CHAIR-2	HERMAN MILLER
5	DINING ROOM CHAIR	HERMAN MILLER
6	DINING ROOM TABLE	HERMAN MILLER
7	DESK CHAIR	HERMAN MILLER



1 INTERIOR ELEVATION: SOUTH
A.10.5



date	description	revision

consultants:

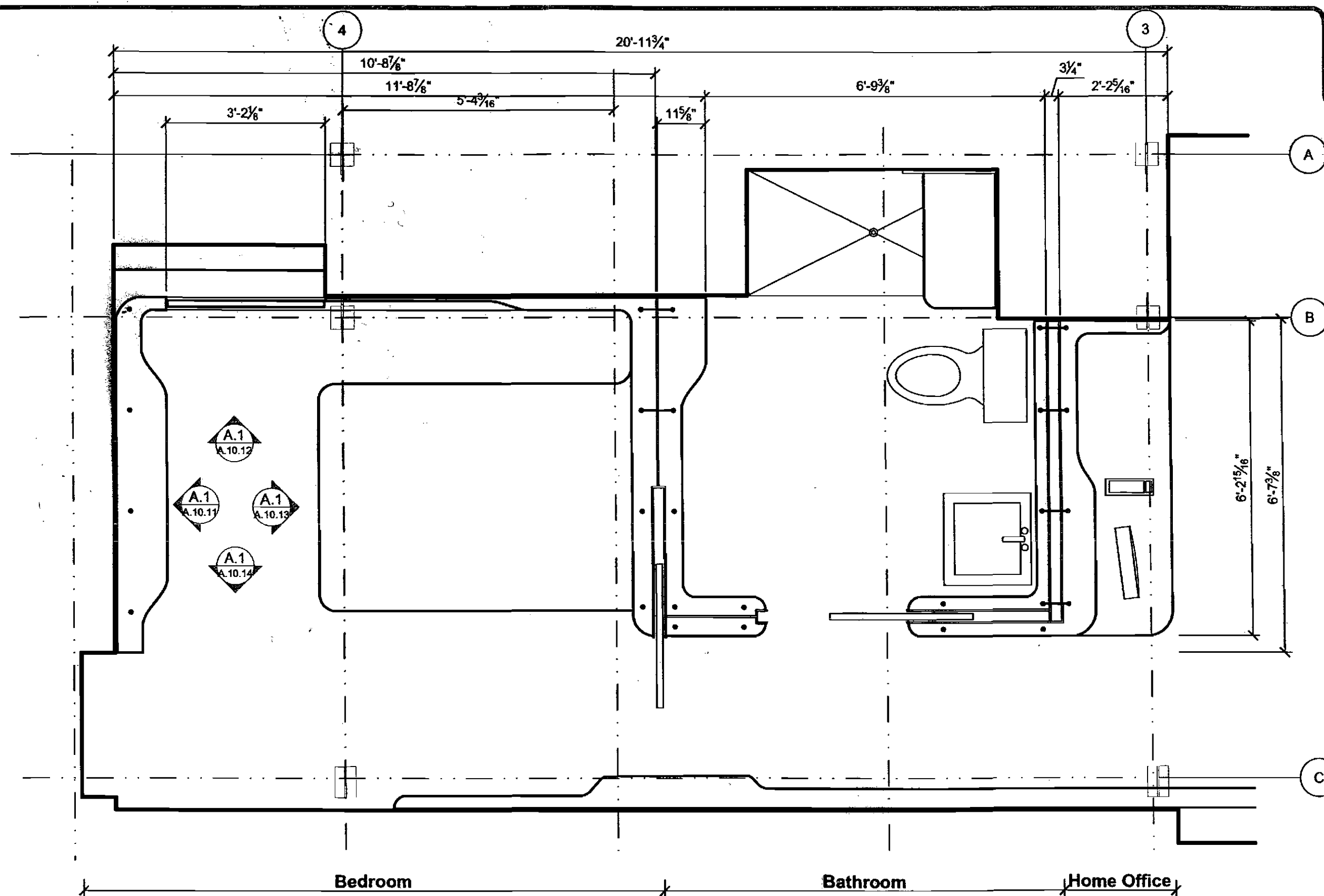
prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: 1/4" : 1' 0"

A.10.5

INTERIOR ELEVATION - LONGITUDINAL LOOKING SOUTH



date	
description	
revision	

consultants:

prepared by:
Kevin Short
date drawn:
12.03.06



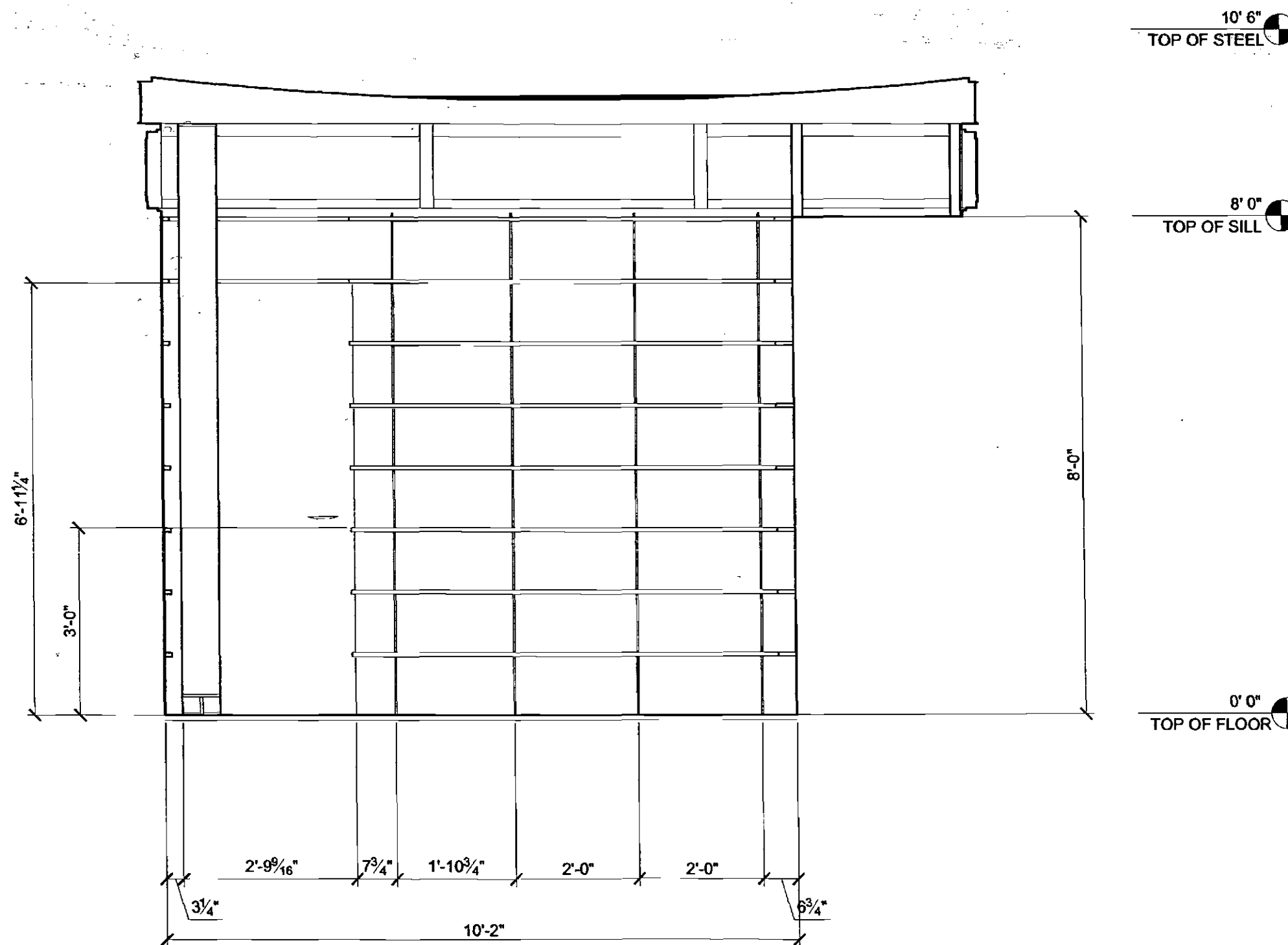
scale: 1/2" = 1' 0"

A.10.10

A1
BEDROOM - PLAN
A.10.10



BEDROOM - PLAN



A1
A.10.11
BEDROOM - WEST ELEVATION



date	
revision	
description	

consultants:

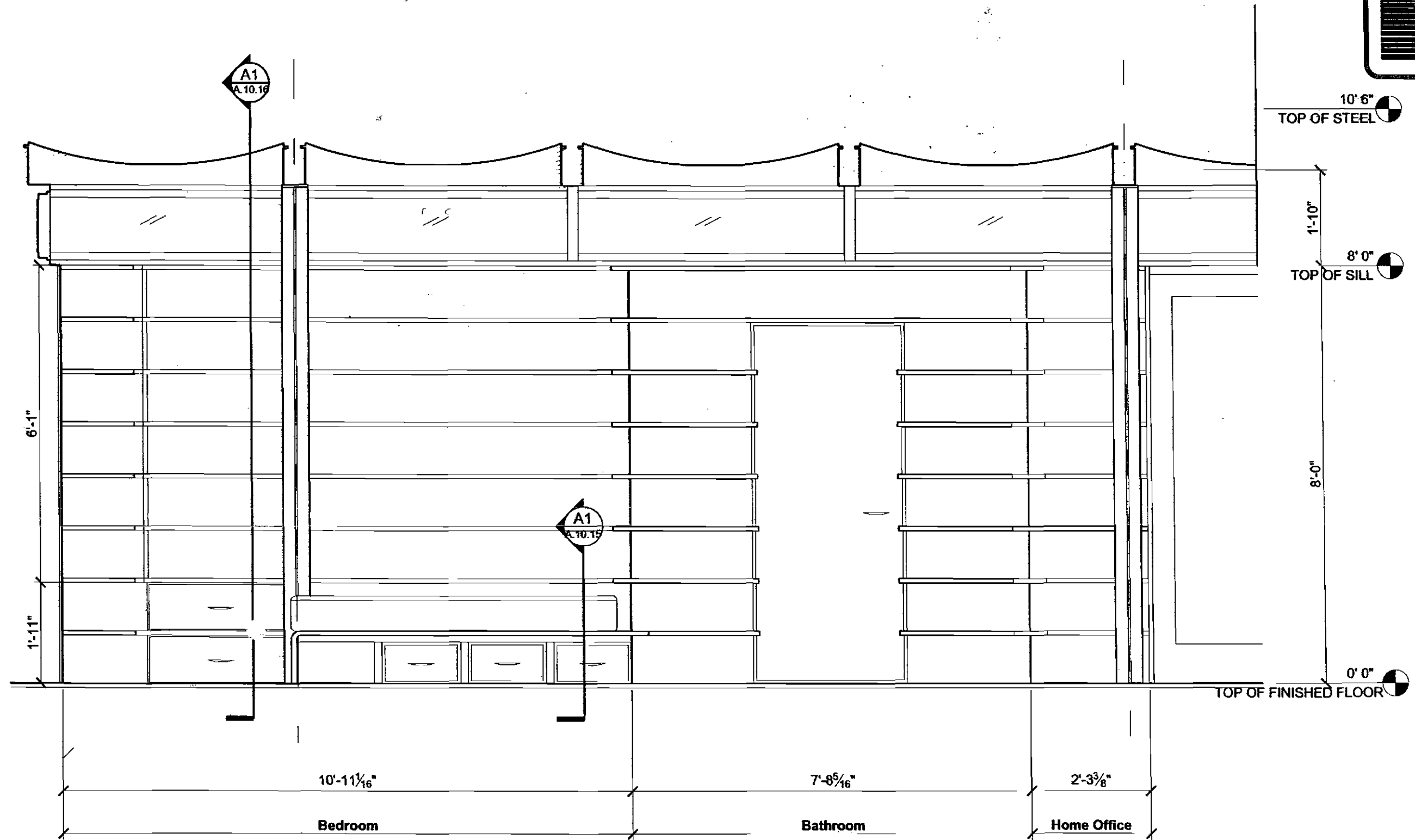
prepared by:
Kevin Short
date drawn:
12.03.06



scale: 1/2" = 1' 0"

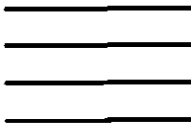
A.10.11

BEDROOM - WEST ELEVATION



date	
description	
revision	

consultants:



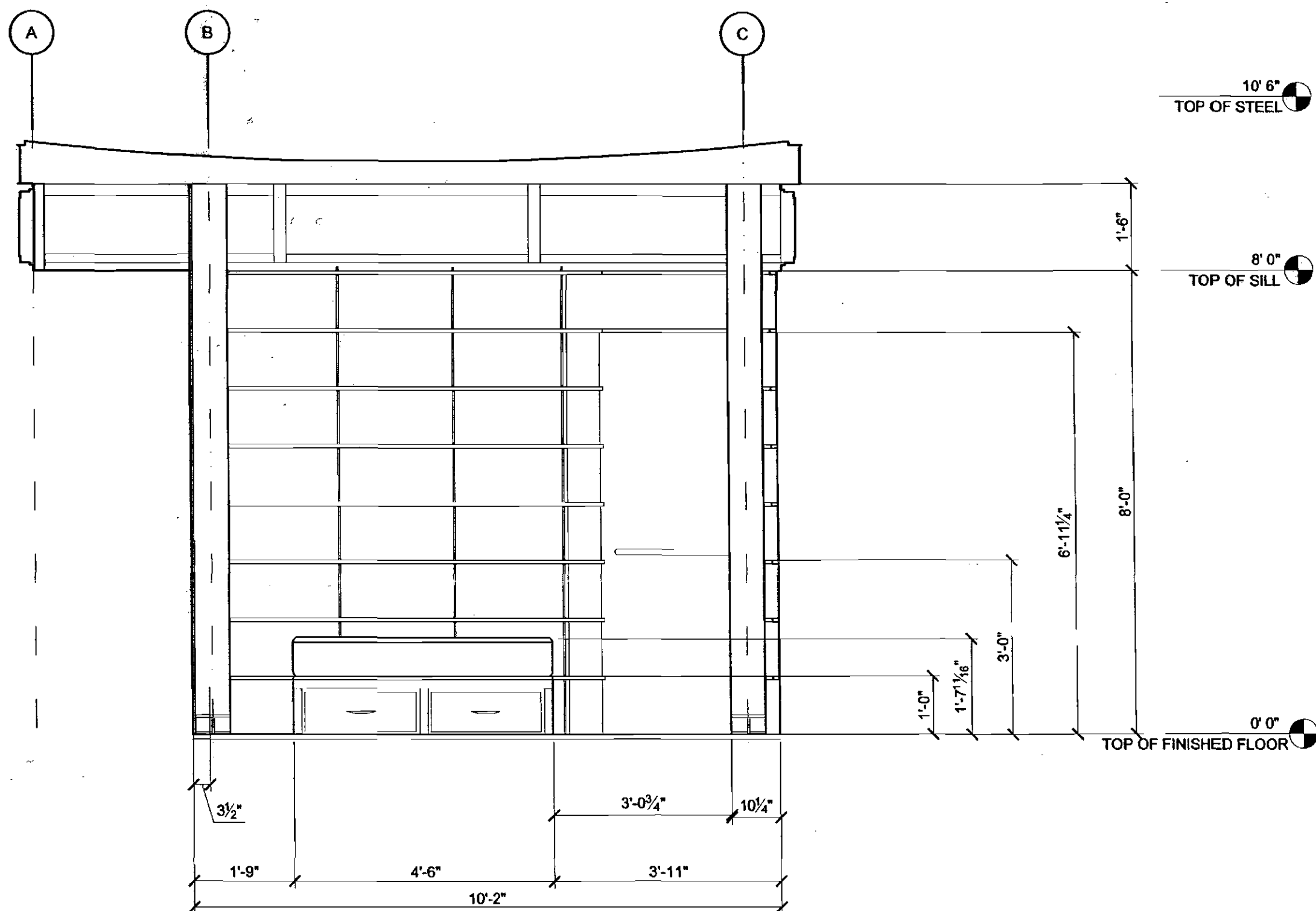
prepared by:
Kevin Short
date drawn:
12.03.06



scale: 1/2" = 1' 0"

BEDROOM - NORTH ELEVATION

A.10.12



A1 BEDROOM - EAST ELEVATION
A.10.13



date	
revision	
description	

consultants:

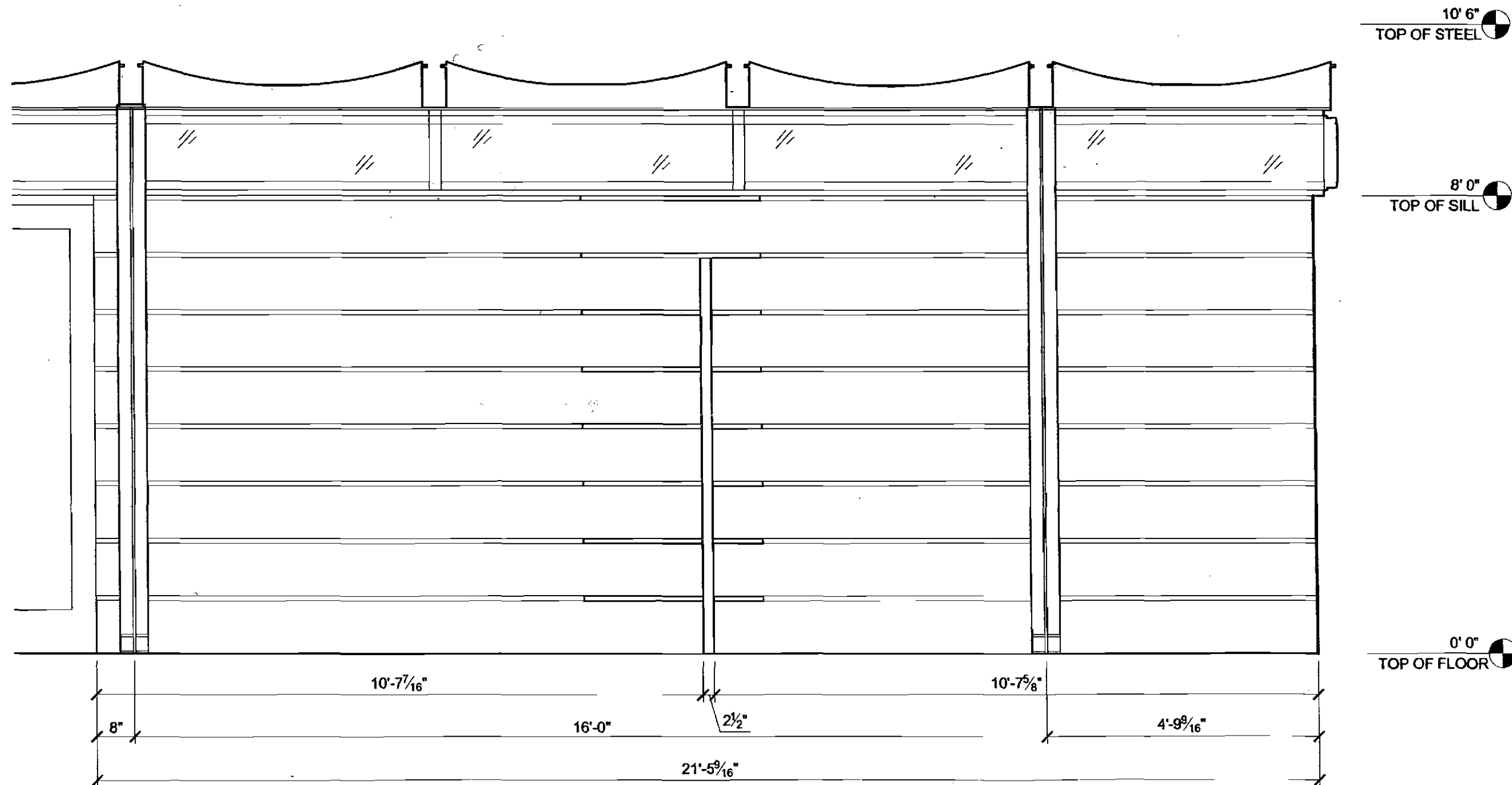
prepared by:
Kevin Short
date drawn:
11.24.06



scale: 1/2" = 1' 0"

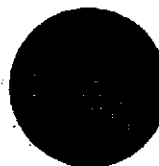
A.10.13

BEDROOM - EAST ELEVATION



date	
description	
revision	

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06



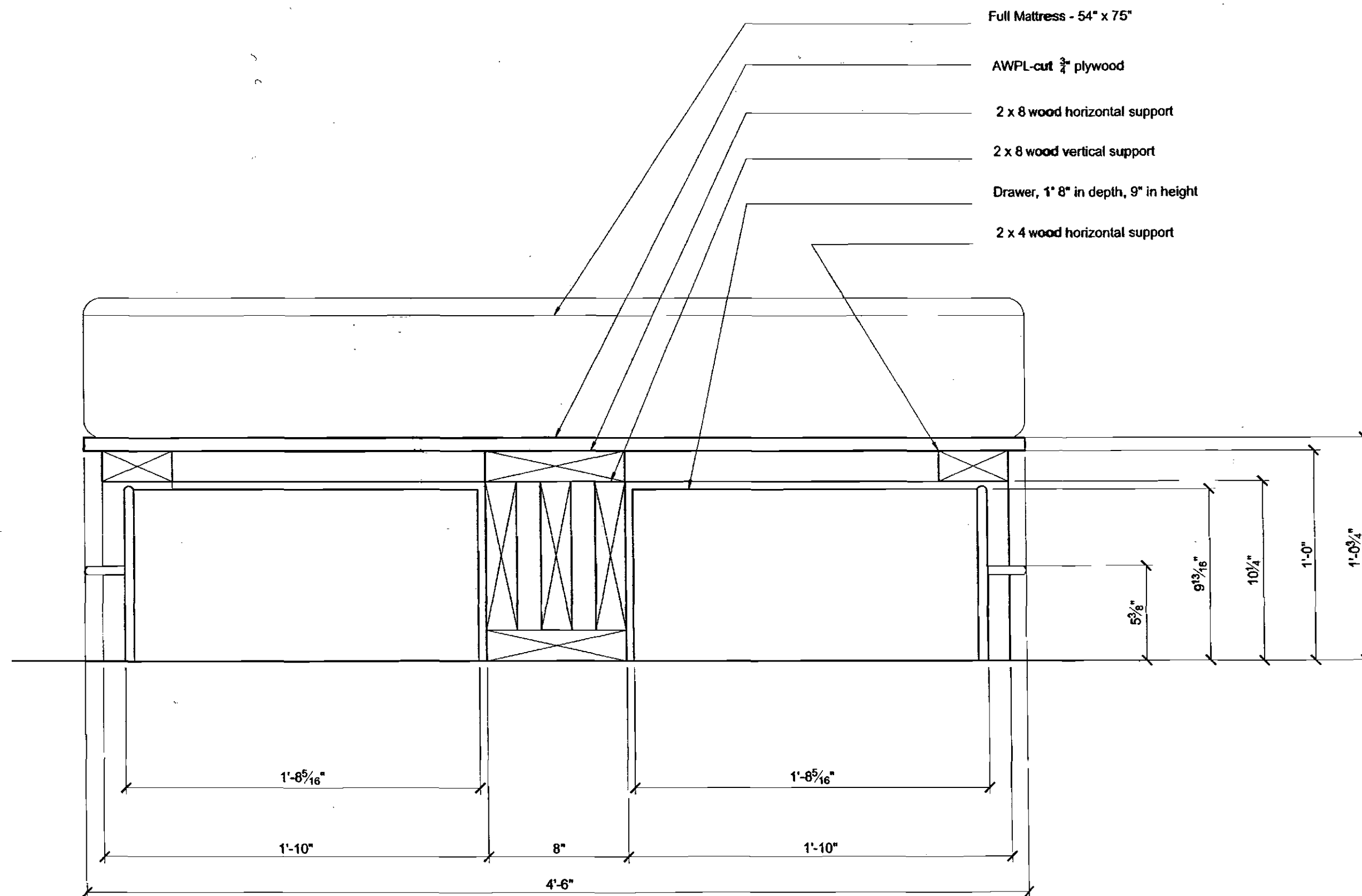
scale: $\frac{1}{2}$ " : 1' 0"

BEDROOM - SOUTH ELEVATION

A1
BEDROOM - SOUTH ELEVATION
A.10.14

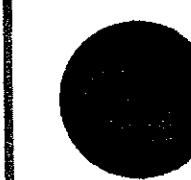


A.10.14



revision	description	date

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06

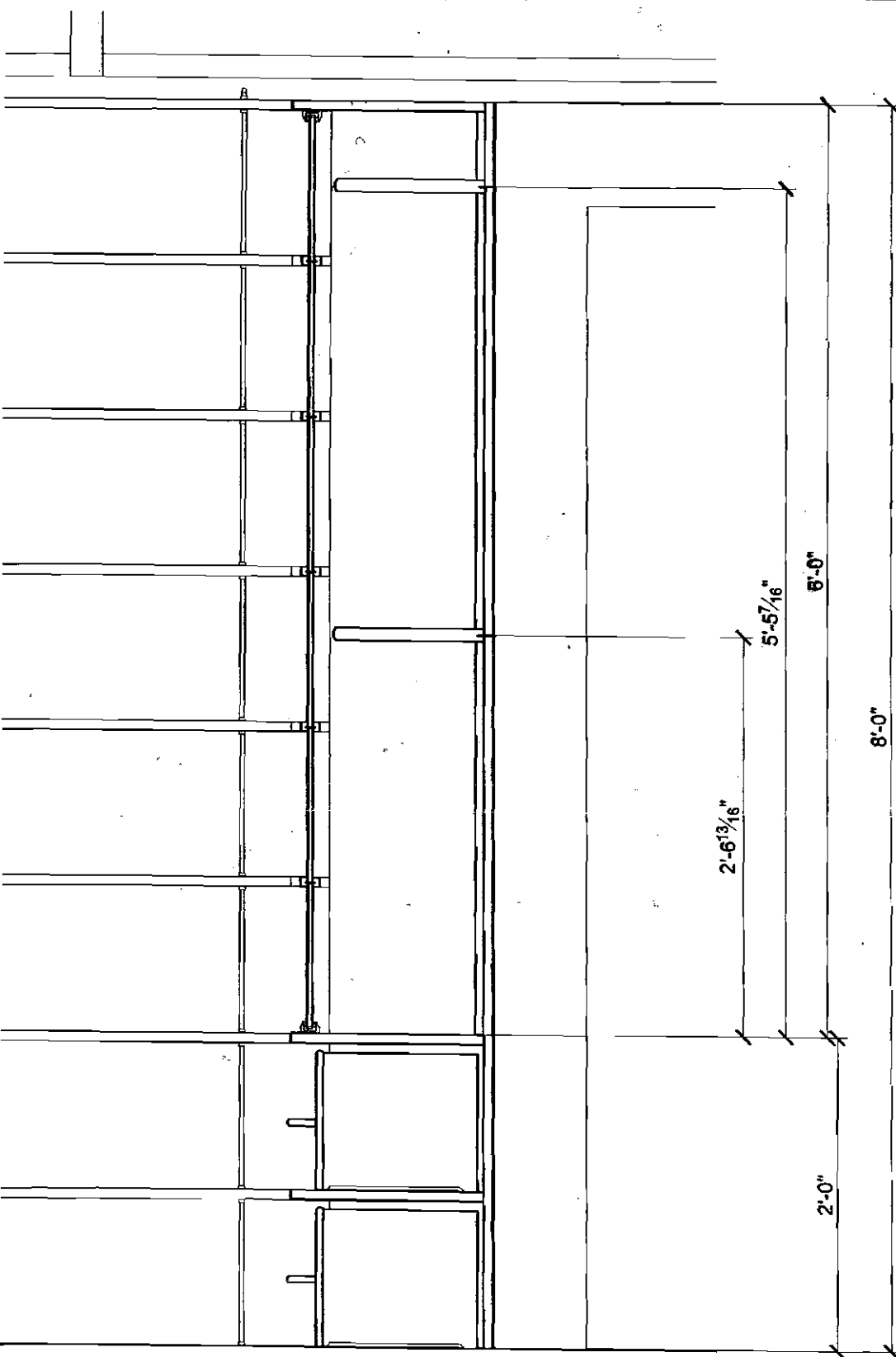


scale: 2" : 1' 0"

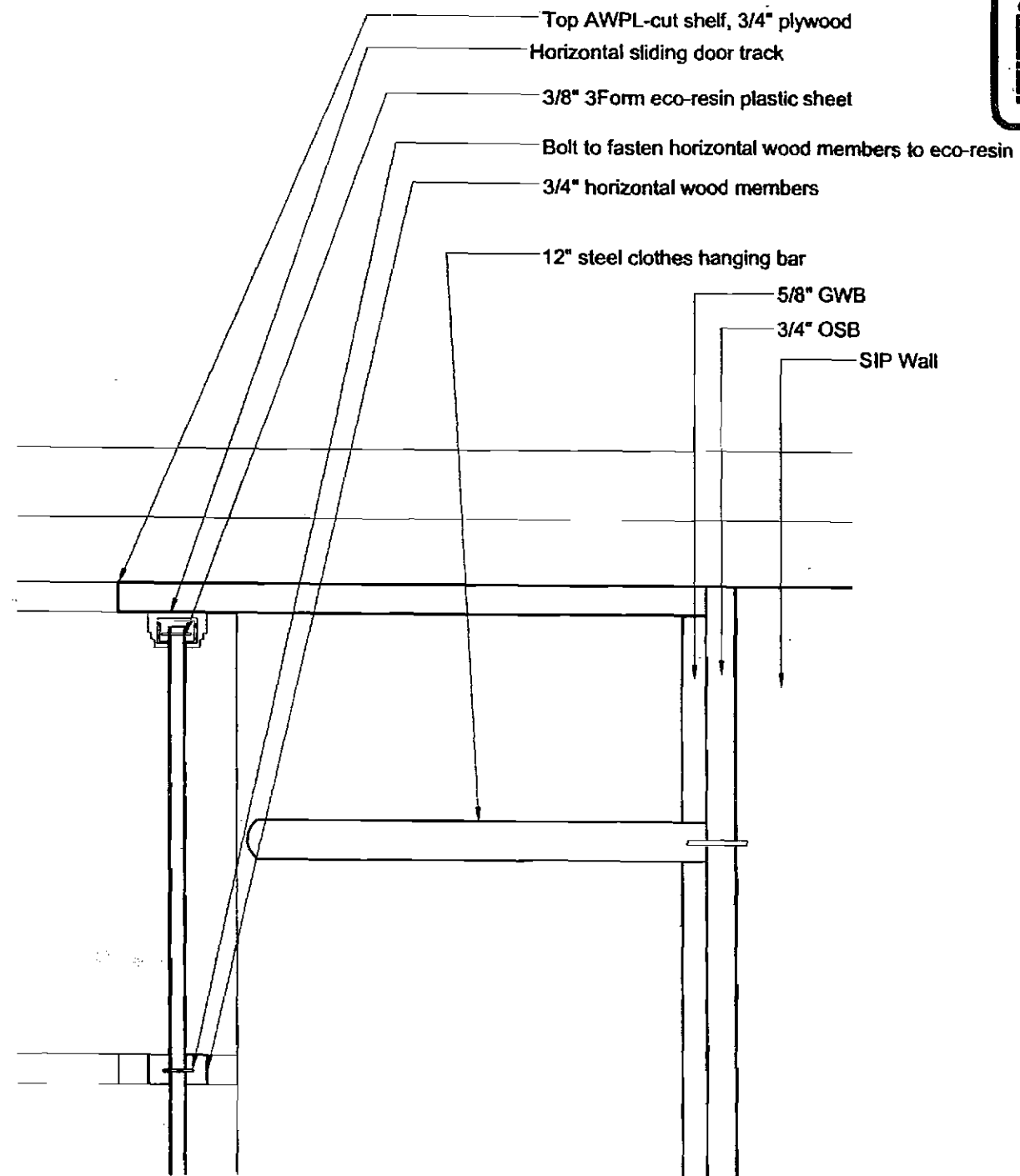
A1 BEDROOM - BED DRAWER DETAIL
A.10.15

BEDROOM - BED DRAWER DETAIL

A.10.15



A1 BEDROOM - CLOSET SECTION DETAIL A
 A.10.16 scale: 1" : 1' 0"



A2 BEDROOM - CLOSET SECTION DETAIL B
 A.10.16 scale: 3" : 1' 0"

revision	description	date

consultants:

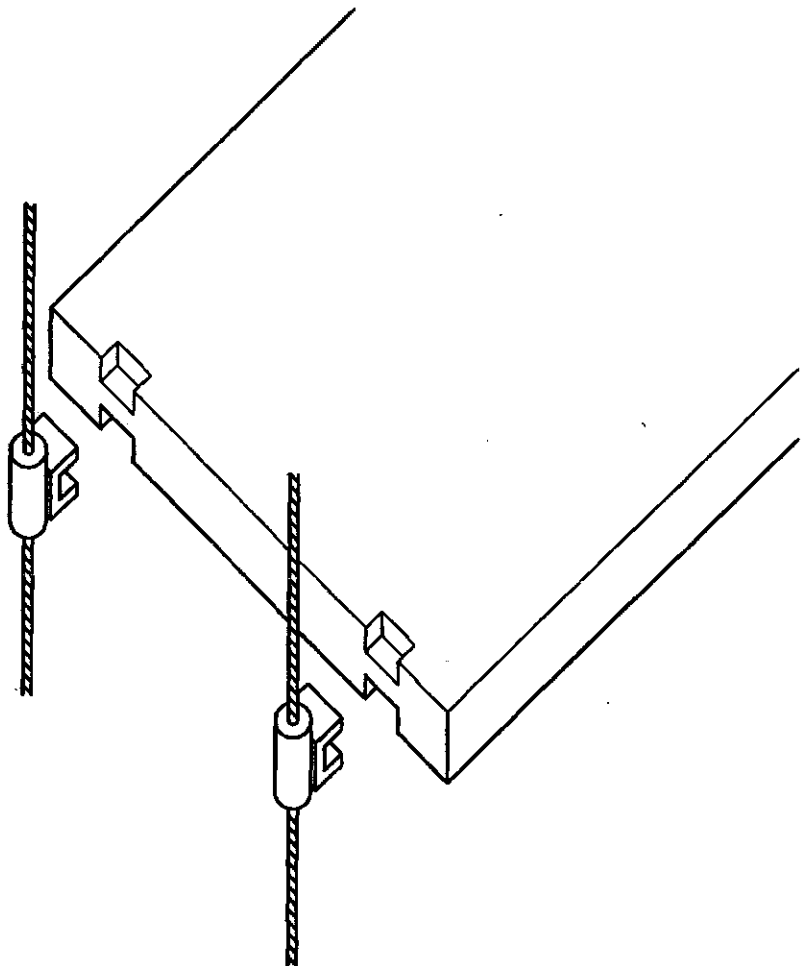
prepared by:
 Kevin Short
 date drawn:
 12.03.06



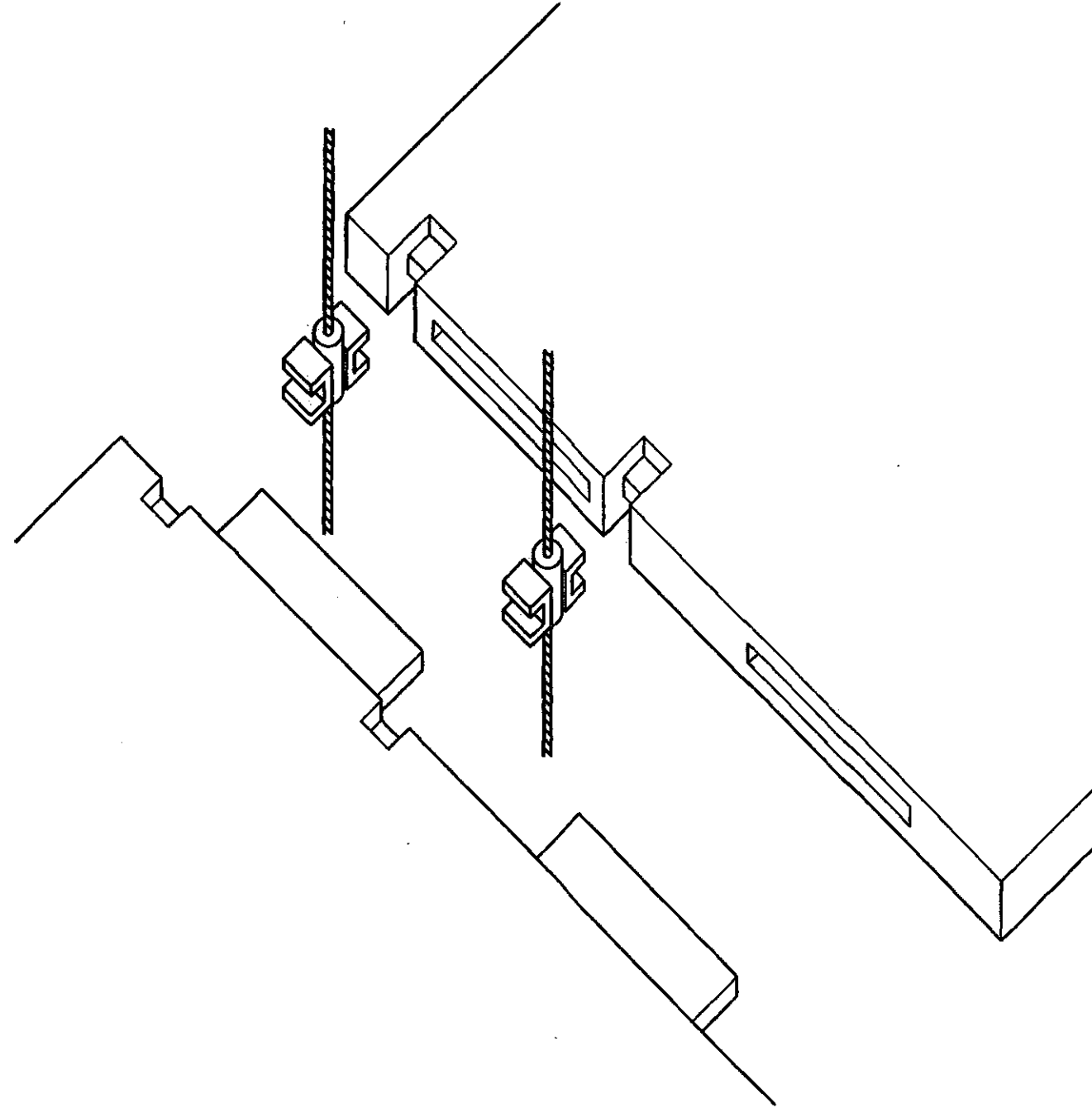
scale: as shown

A.10.16

BEDROOM - CLOSET SECTION DETAIL



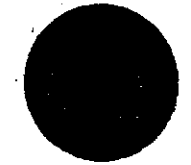
A1 SHELF-END GRIP CONNECTION DETAIL
A.10.17



A2 MID-SHELF GRIP CONNECTION DETAIL
A.10.17

revision	description	date

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06



scale: 6" : 1' 0"

A.10.17

BEDROOM - CABLE CONNECTION DETAIL

revision	description	date

consultants:

prepared by:
Kevin Short
date drawn:
12.03.06

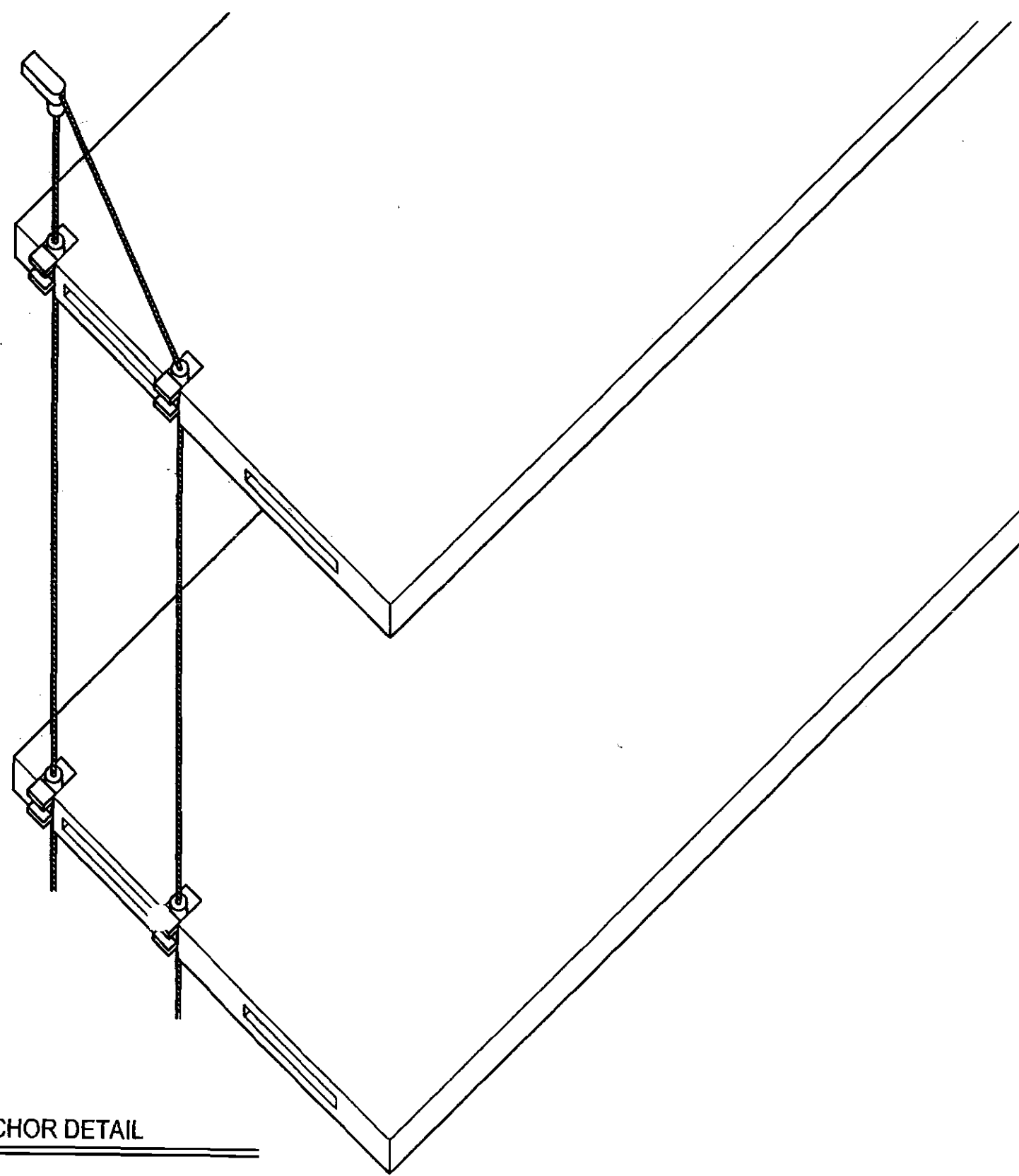


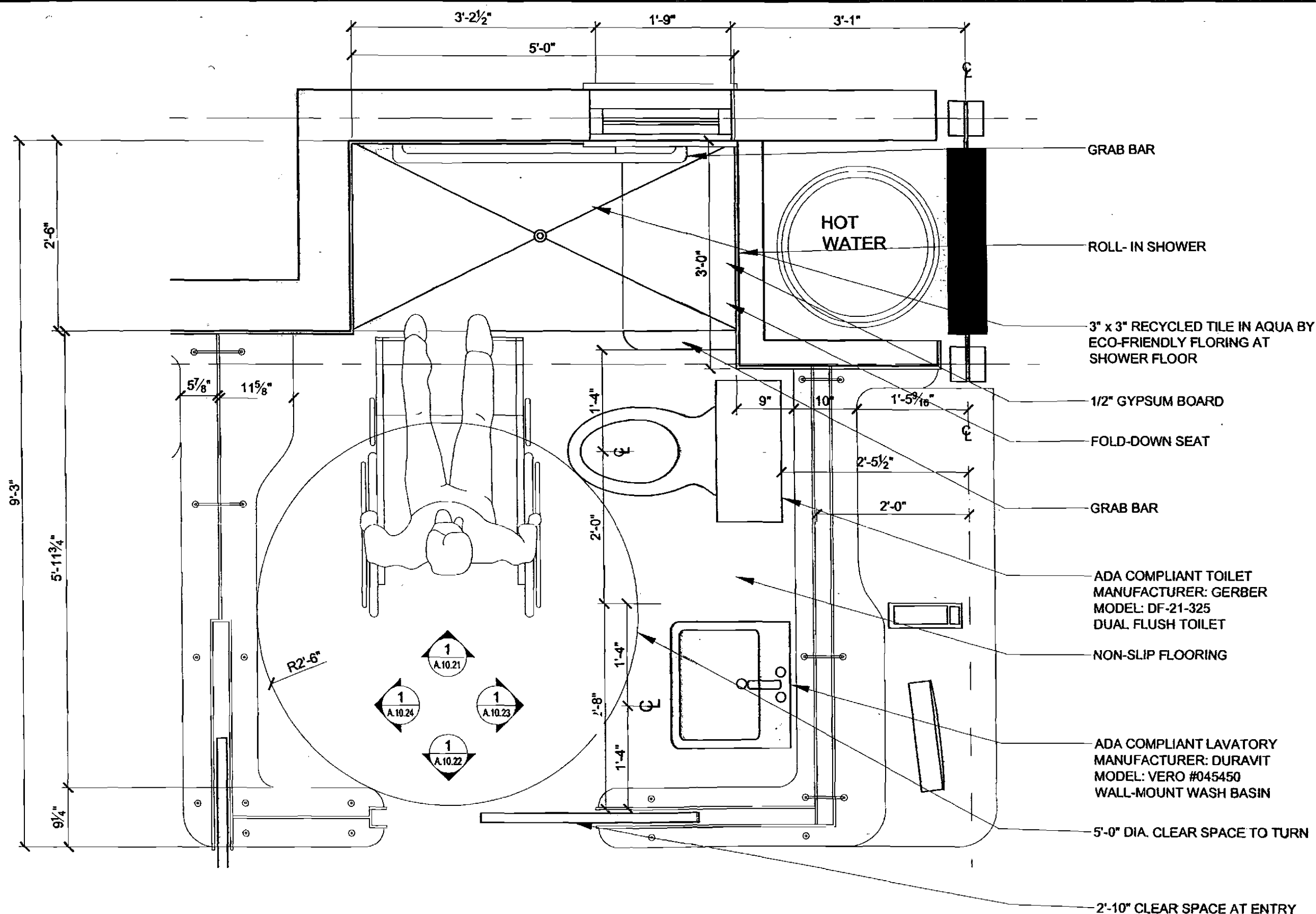
scale: 4" : 1' 0"

A.10.18

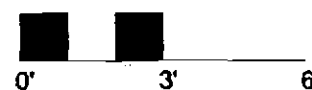
BEDROOM - WALL ANCHOR DETAIL

A1 WALL ANCHOR DETAIL
A.10.18



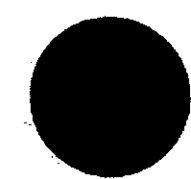


1 BATHROOM PLAN
A.10.20



date	
description	
revision	

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06



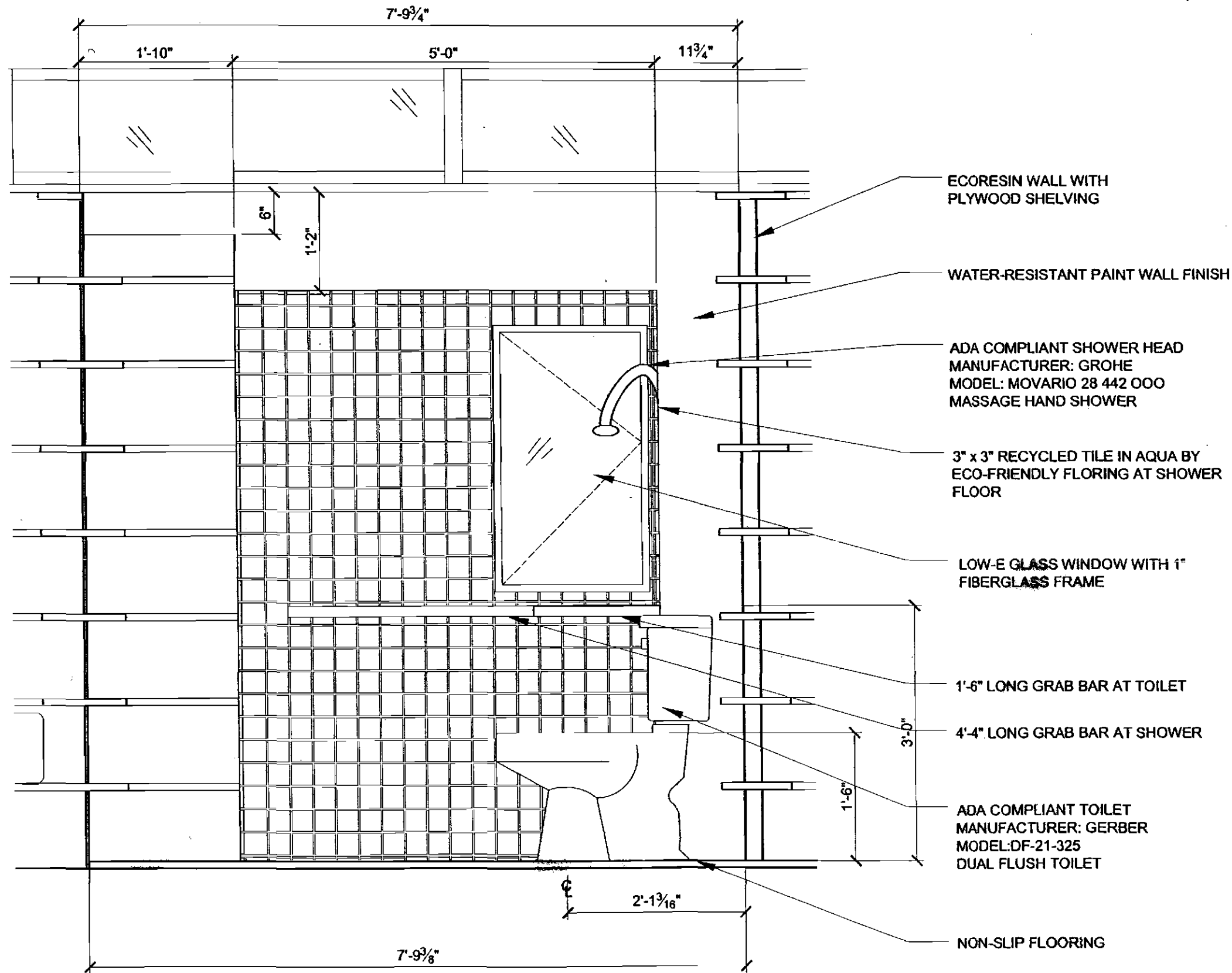
scale: 3/4" : 1' 0"

BATHROOM - PLAN

A.10.20

8'-0"
TOP OF SILL

0'-0" TOP OF
FINISHED FLOOR

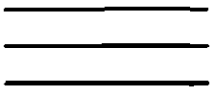


1 BATHROOM ELEVATION
A.10.21



date	
description	
revision	

consultants:



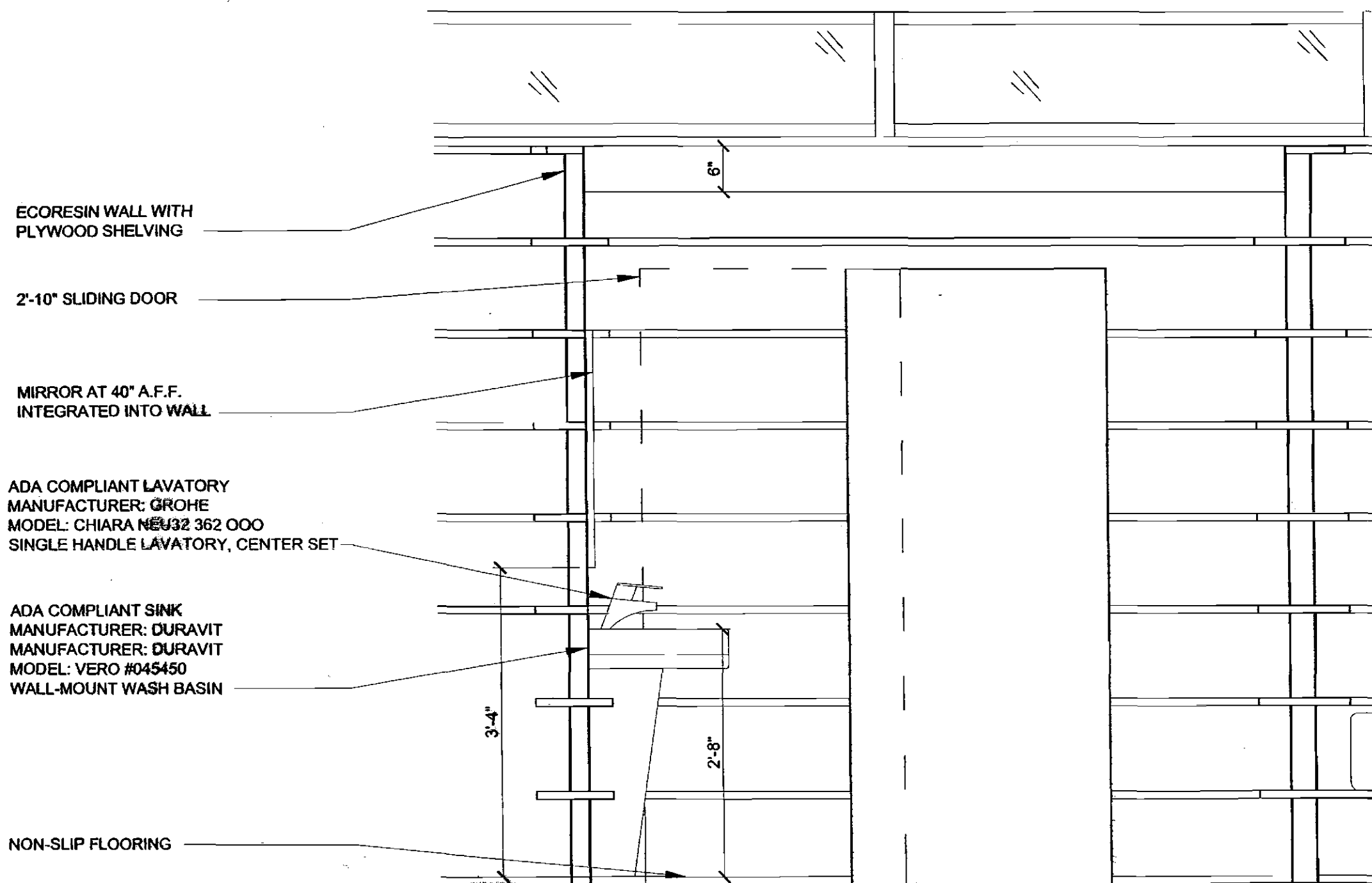
prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: 3/4" : 1' 0"

A.10.21

BATHROOM - INTERIOR ELEVATIONS - NORTH



TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

ECORESIN WALL WITH PLYWOOD SHELVING

2'-10" SLIDING DOOR

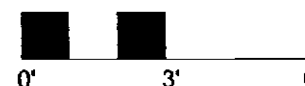
MIRROR AT 40" A.F.F. INTEGRATED INTO WALL

ADA COMPLIANT LAVATORY
MANUFACTURER: GROHE
MODEL: CHIARA NEU32 362 000
SINGLE HANDLE LAVATORY, CENTER SET

ADA COMPLIANT SINK
MANUFACTURER: DURAVIT
MODEL: VERO #045450
WALL-MOUNT WASH BASIN

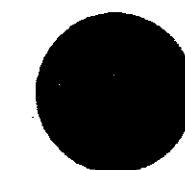
NON-SLIP FLOORING

1 BATHROOM ELEVATION
A.10.22



date	revision	description

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06



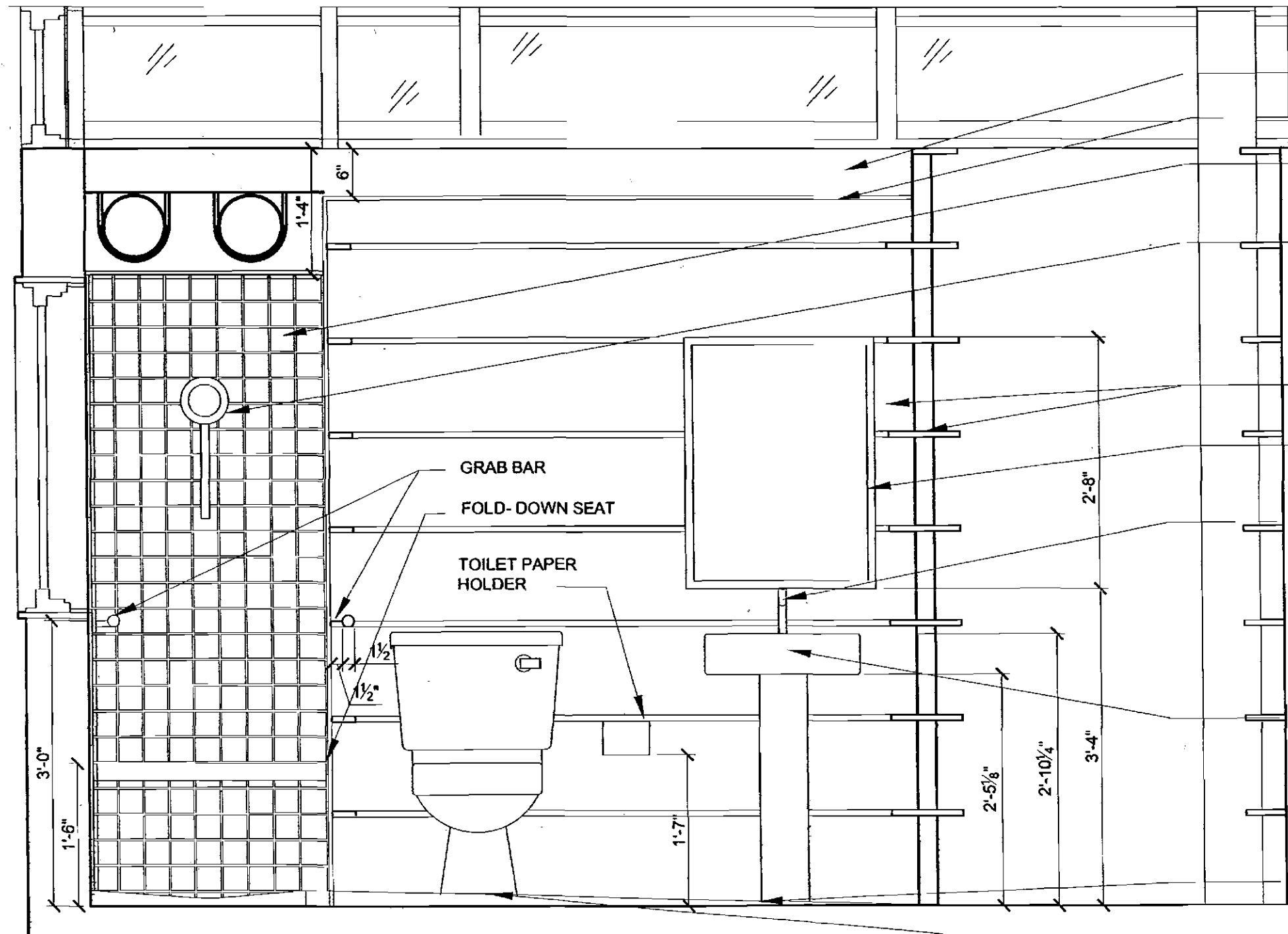
scale: 3/4" : 1' 0"

A.10.22

BATHROOM - INTERIOR ELEVATIONS - SOUTH

8'-0"
TOP OF SILL

0'-0" TOP OF
FINISHED FLOOR



WATER-RESISTANT
PAINT WALL FINISH
1/2" GYPSUM BOARD

3" x 3" RECYCLED TILE IN
AQUA BY ECO-FRIENDLY
FLORING AT SHOWER
FLOOR

ADA COMPLIANT SHOWER HEAD
MANUFACTURER: GROHE
MODEL: MOVARIO 28 442 000
MASSAGE HAND SHOWER

ECORESIN WALL WITH
PLYWOOD SHELVING

MIRROR AT 40" A.F.F.
INTEGRATED INTO WALL

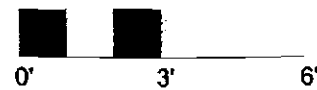
ADA COMPLIANT LAVATORY
MANUFACTURER: GROHE
MODEL: CHIARA NEU 32 362 000
SINGLE HANDLE LAVATORY,
CENTER SET

ADA COMPLIANT SINK
MANUFACTURER: DURAVIT
MANUFACTURER: DURAVIT
MODEL: VERO #045450
WALL-MOUNT WASH BASIN

NON-SLIP FLOORING

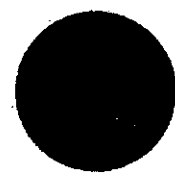
ADA COMPLIANT TOILET
MANUFACTURER: GERBER
MODEL: DF-21-325
DUAL FLUSH TOILET

1 BATHROOM ELEVATION
A.10.23



date	
description	
revision	

consultants:	



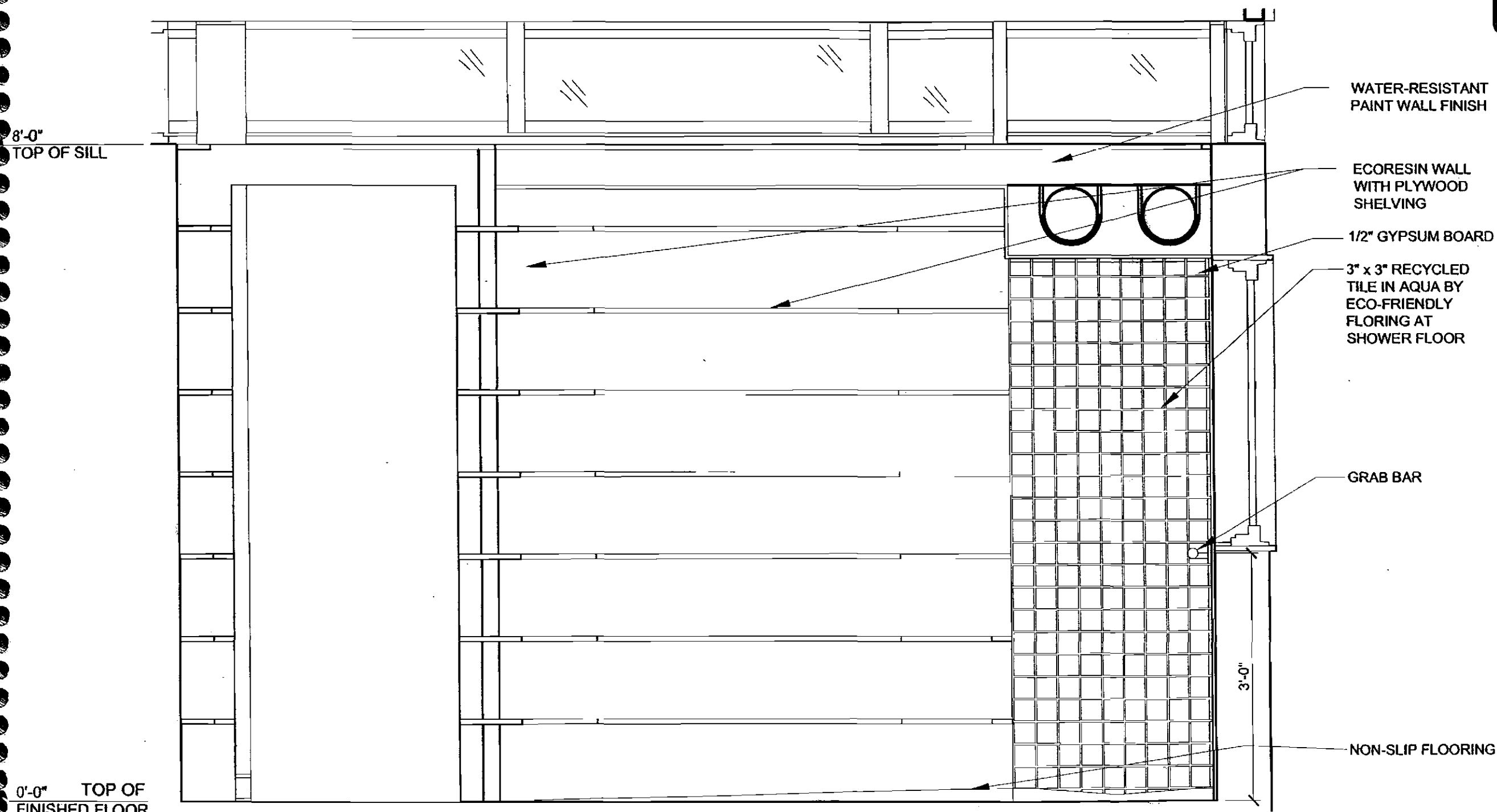
prepared by:
Sarah Shelley
date drawn:
12.6.06



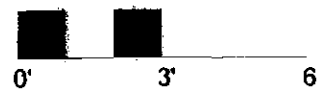
scale: 3/4" : 1' 0"

BATHROOM - INTERIOR ELEVATIONS - EAST

A.10.23



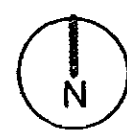
1 BATHROOM ELEVATION
A.10.24



date	description	revision

consultants:

prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: 3/4" : 1' 0"

BATHROOM - INTERIOR ELEVATIONS - WEST

A.10.24

date	
revision	

consultants:



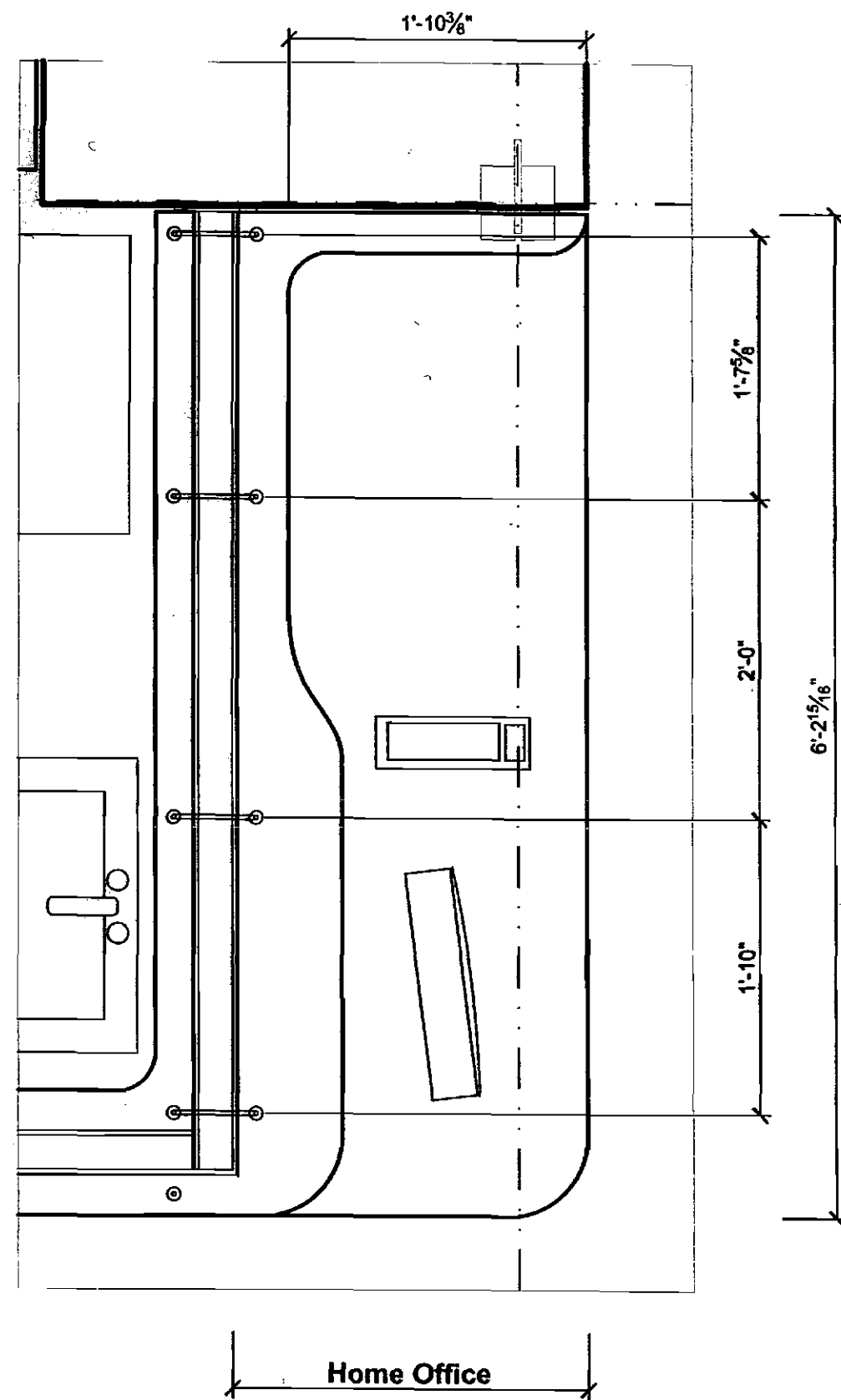
prepared by:
Sarah Shelley
date drawn:
12.6.06



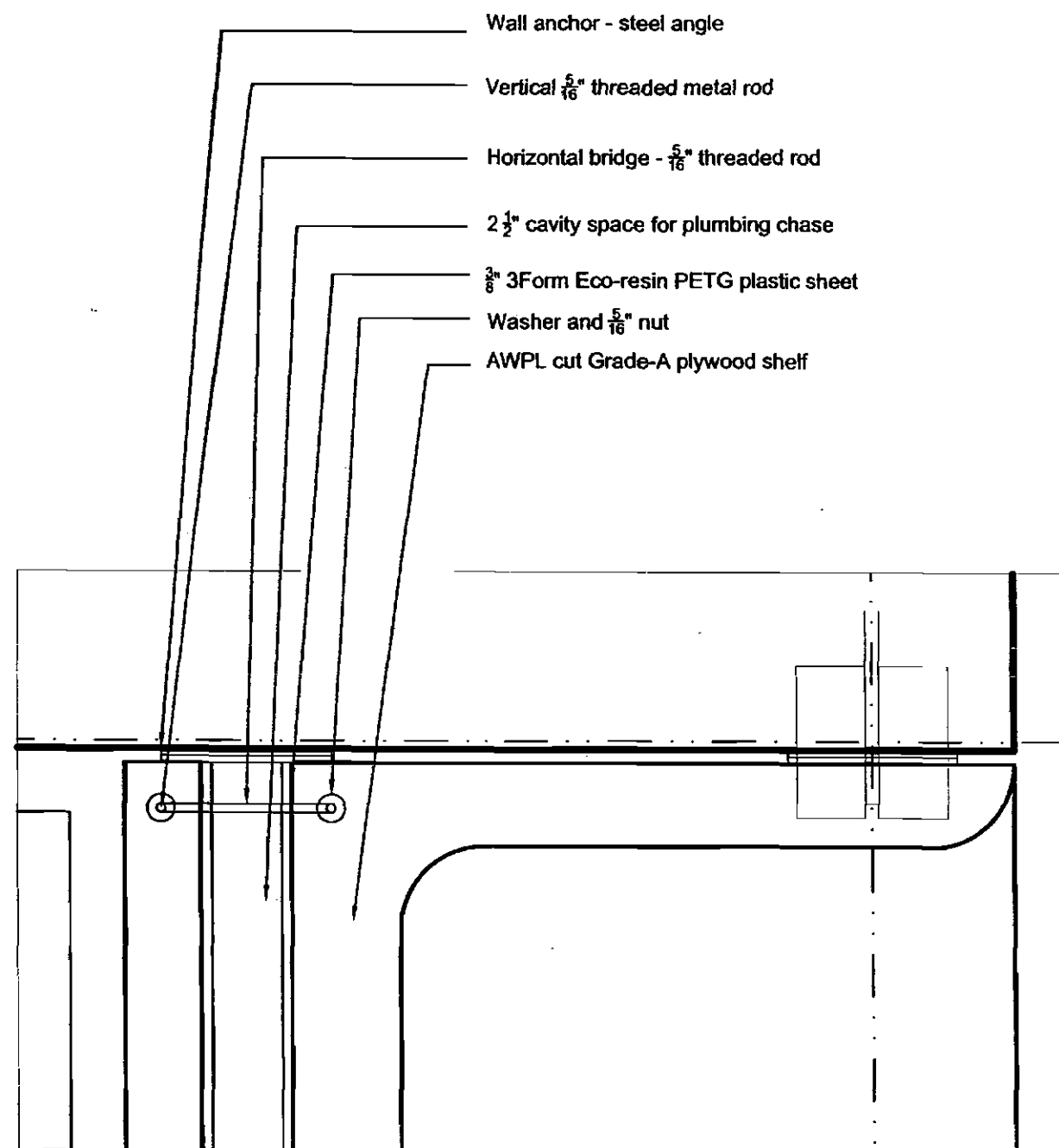
scale: NTS

BATHROOM HARDWARE SCHEDULE

PRODUCT	MANUFACTURER	PACKING (in pieces)	QUANTITY
Mirror, 2' x 4'		1	1
Mirror holder, for frameless mirrors: chrome polished	HAFELE	25	1 set
Pull out towel rack: chrome polished	HAFELE	1 set	1 set
Recessed pull handles: 3.5", pure white	HAFELE	25	1
Toilet compartment grab bar: 54", pre white	HAFELE	1	1
Shower grab rail (2 sided): 37.5", pure white	HAFELE	1	1
Shower Grab Rail with Hand Shower Holder (2 sided): pure white	HAFELE	1	1
Side support rail with friction/ rotation controlled toilet roll holder, pure white	HAFELE	1	1
Lift up support rail: 35.5", pure white	HAFELE	1	1
*Toilet roll holder for lift up support	HAFELE	1	1
Wall mounted seat with armrests, light grey and pure white	HAFELE	1	1
Towel bar: with flange: 35.5", pure white	HAFELE	1	2
Walking aid and hook rail: pure white	HAFELE	1	2
Soap dish, pure white	HAFELE	1	1
Tumbler with holder, pure white	HAFELE	1	1
Accessory container, opaque white	HAFELE	1	1
*Holder for accessory container, pure white	HAFELE	1	1
Toilet Brush Unit, pure white	HAFELE	1 set	1 set
Adjustable mirror, grip bar at right, pure white	HAFELE	1	1
Lever handle with tubular passage latch: 2.75 x 1.75", pure white	HAFELE	1 set	1 set
Door stop, jet black	HAFELE	1	5



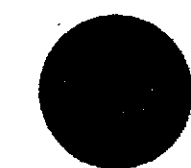
A1 HOME OFFICE - PLAN
A.10.30 SCALE: 1" : 1' 0"



A2 HOME OFFICE - PLAN DETAIL
A.10.30 SCALE: 2" : 1' 0"

date	
description	
revision	

consultants:



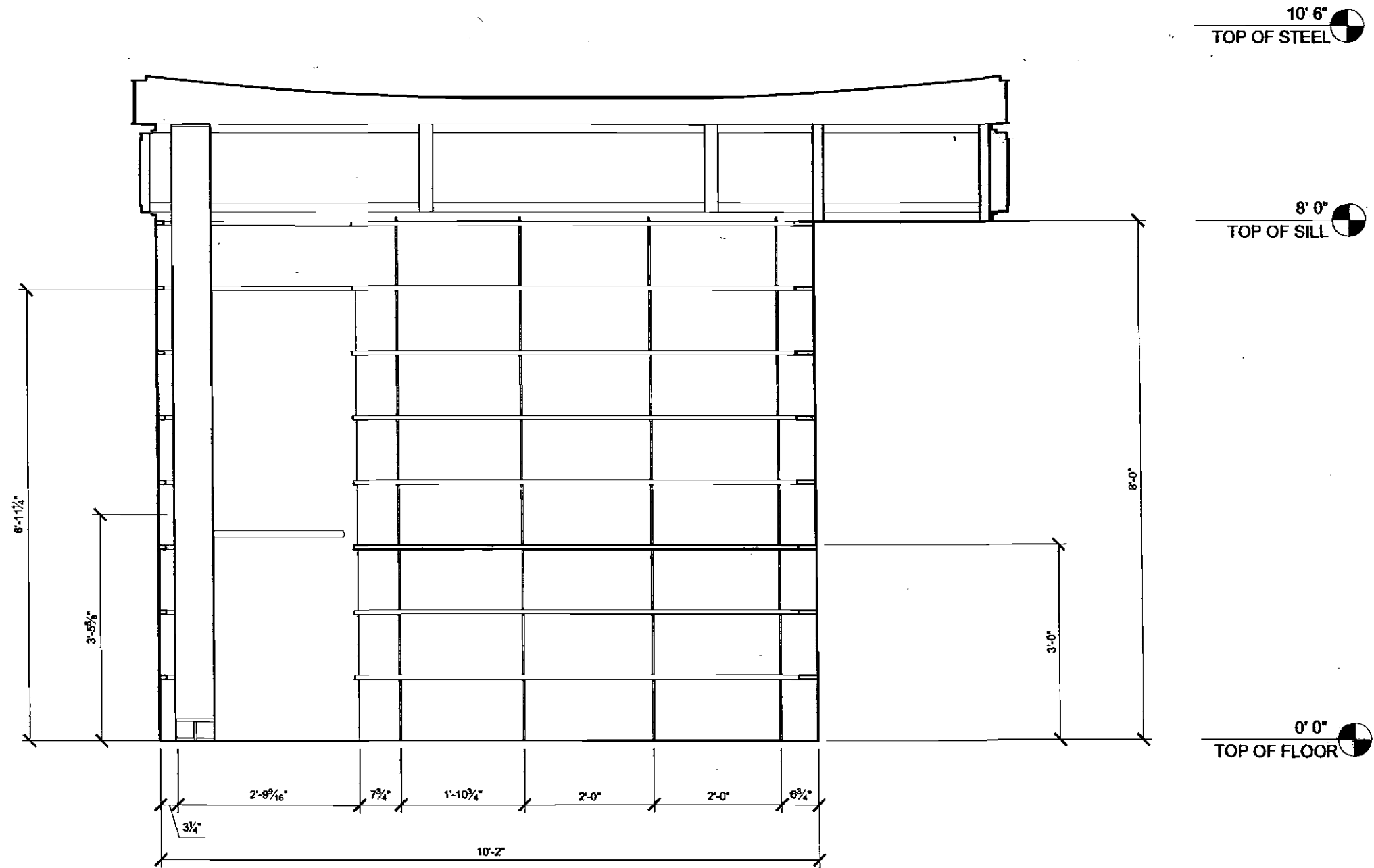
prepared by:
Kevin Short
date drawn:
12.03.06



scale: as shown

A.10.30

HOME OFFICE - PLAN

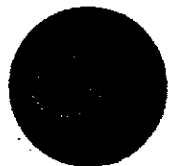


A1 HOME OFFICE - ELEVATION
A.10.16



date	
description	
revision	

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06

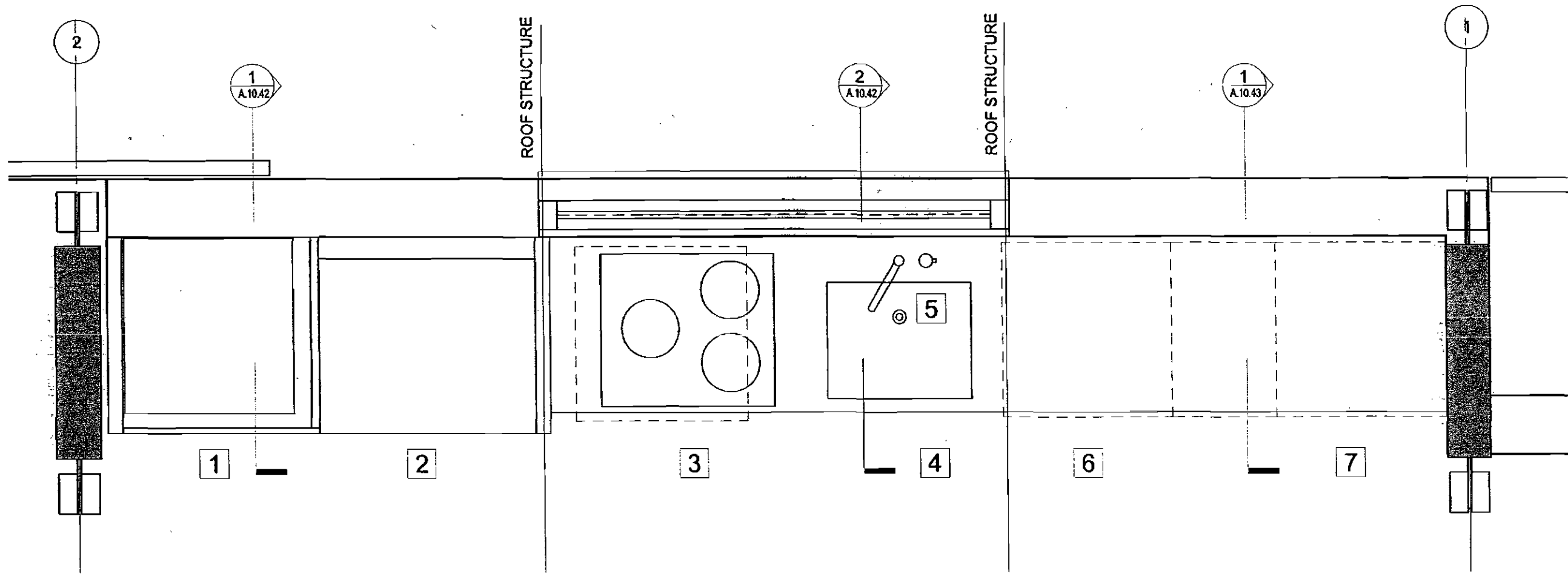


scale: 1" : 1' 0"

HOME OFFICE - ELEVATION

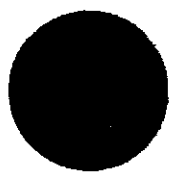
A.10.31

#	APPLIANCE/ FIXTURE	MANUFACTURER	MODEL	DIMENSIONS	NOTES
1	FRONT LOADING WASHER/ DRYER UNIT	LG	WD3274RHD	33.5" X 23.625" X 24.25"	
2	BOTTOM- FREEZER REFRIGERATOR	LIEBHERR	CI 1601	84.25" X 30" X 23.83"	
3	FLAT SURFACE ELECTRIC INDUCTION COOKTOP	DIVA DE PROVENCE	DDP-3	2.25" X 23.56" X 21"	
4	DROP IN SINK	ELKAY	LRAD 2219	22" X 19.5" X 5.5"	
5	PULL-OUT SPRAY FAUCET	GROHE	ALIRA 32 999	9.12" X 7.12" X 5.19"	
6	DISHWASHER: DISH DRAWER	FISHER AND PAYKEL	DS603FC- SINGLE	16.09" X 23.44" X 22.44"	
7	MICROWAVE OVEN	MIELE	H4080BM	17.94" X 23.62" X 22.12"	



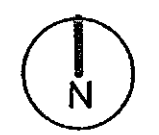
date	
description	
revision	

consultants:



prepared by:
Jodi Bell-Quinn

date drawn:
12.6.06



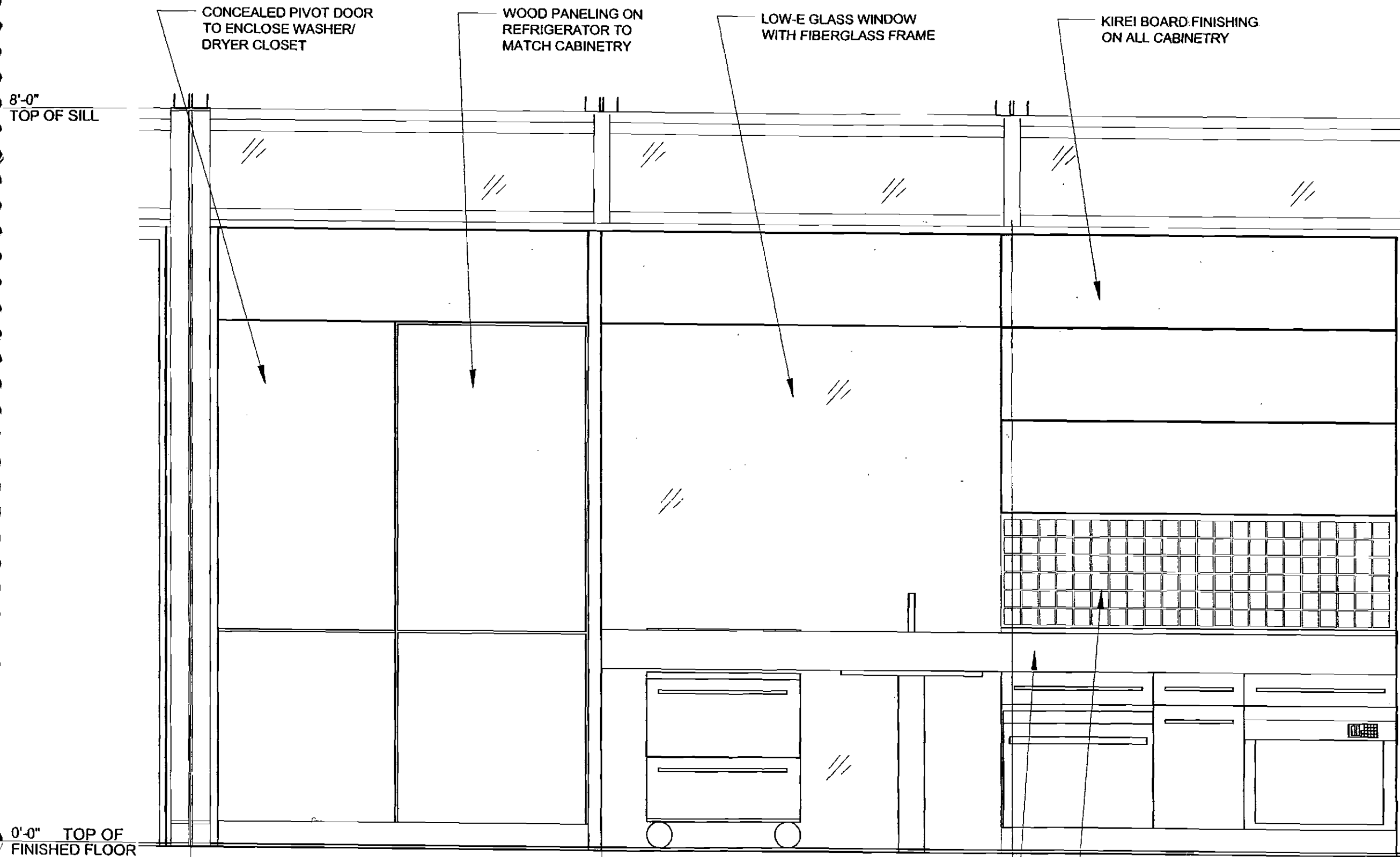
scale: 3/4" : 1' 0"

KITCHEN - PLAN

1 KITCHEN - PLAN
A.10.40



A.10.40



0'-0" TOP OF FINISHED FLOOR

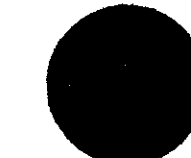
1 KITCHEN - ELEVATION
A.10.41



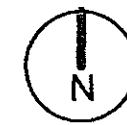
3" X 3" RECYCLED METAL TILE BACKSPLASH BY ECO FRIENDLY FLOORING
6" VETRAZZO COUNTERTOP

date	
description	
revision	

consultants:



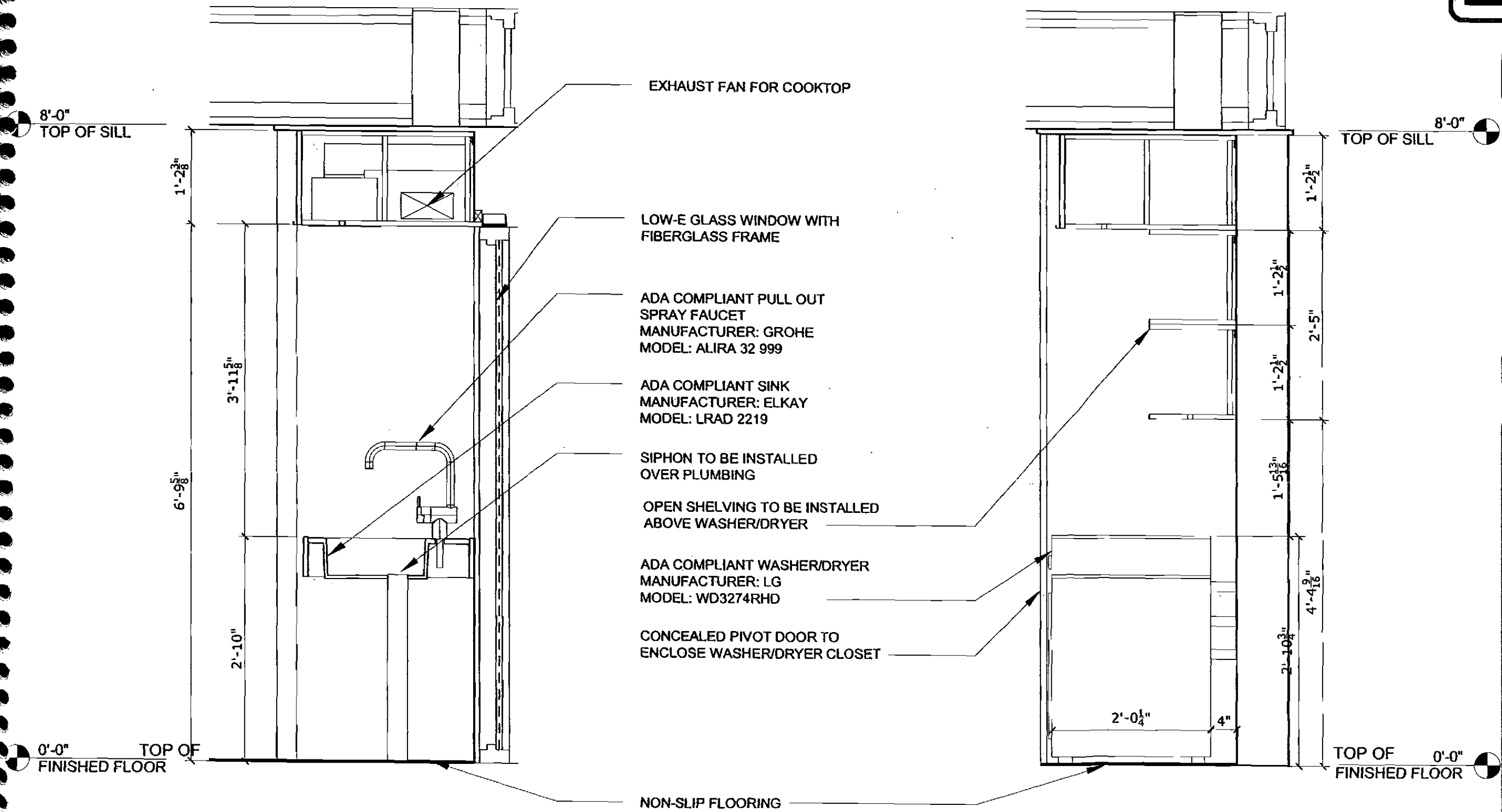
prepared by:
Jodi Bell-Quinn
date drawn:
12.6.06



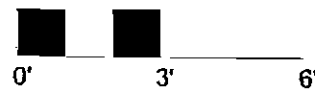
scale: 3/4" : 1' 0"

INTERIOR ELEVATION - KITCHEN

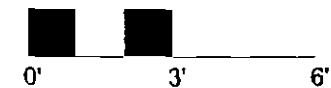
A.10.41



2 KITCHEN - SECTION
A.10.42 AT SINK

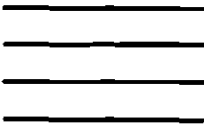


1 KITCHEN - SECTION
A.10.42 AT WASHER/ DRYER



date	
description	
revision	

consultants:



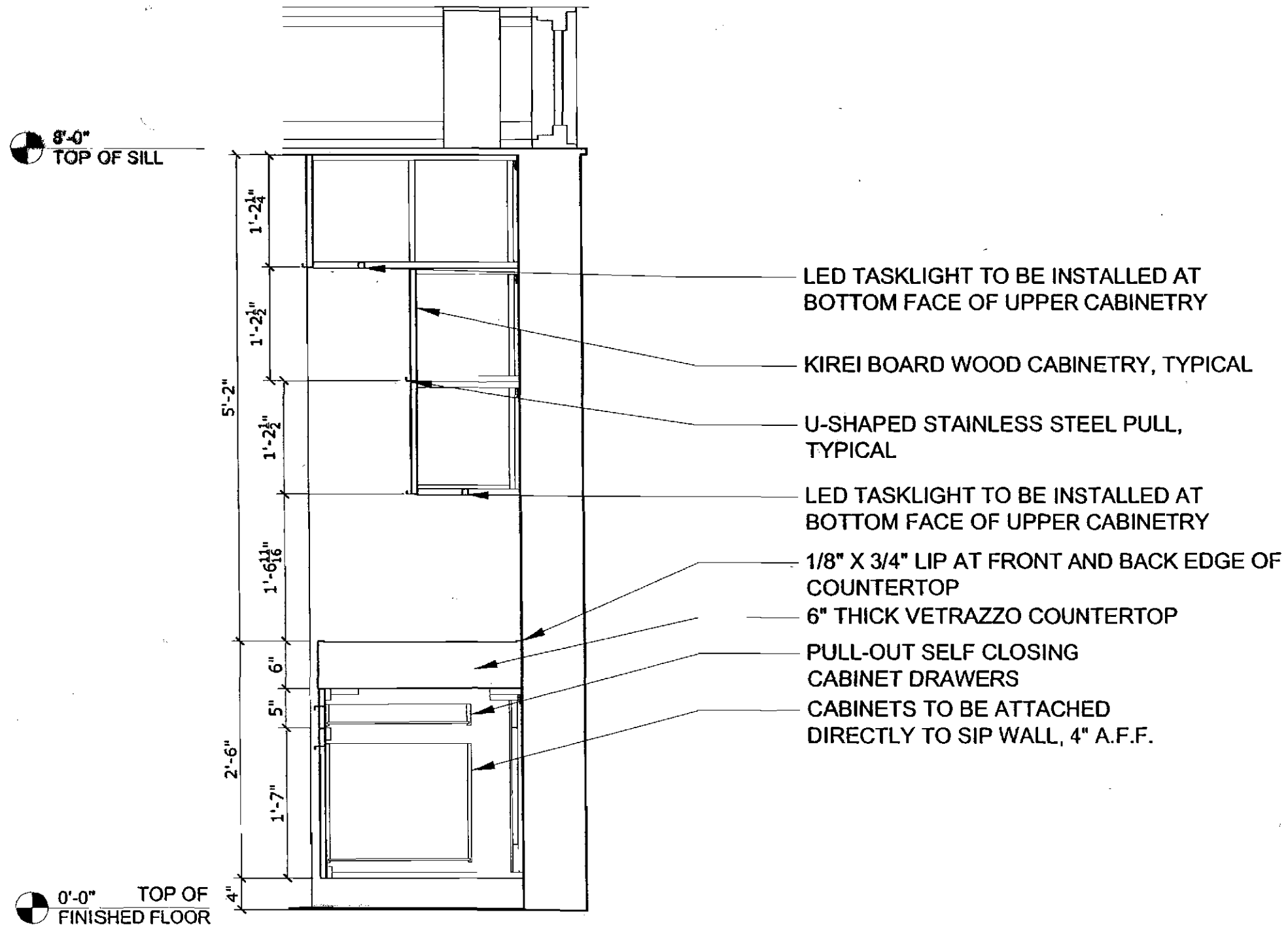
prepared by:
Jodi Bell-Quinn
date drawn:
12.6.06



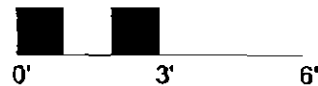
scale: 3/4" : 1' 0"

KITCHEN - SECTIONS

A.10.42

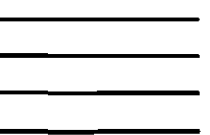


1 KITCHEN - SECTION
A.10.43 AT CABINETS

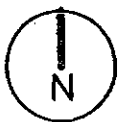


date	
description	
revision	

consultants:



prepared by:
Jodi Bell-Quinn
date drawn:
12.6.06



scale: 3/4" : 1' 0"

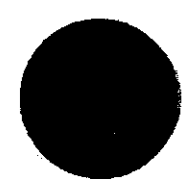
KITCHEN CABINET DETAILS

A.10.43

QUANTITY	PRODUCT	MANUFACTURER	PACKING (in pieces)
1 set of 10	stainless steel and zinc handles: 1'-0"	HAFELE	10 and 25
1 set	Solo 32 clip connector	HAFELE	100
1 set	Cabinet connector: black	HAFELE	100
1 set	Metal shelf supports: nickel plated	HAFELE	2000
1 set	Magnetic catch: black	HAFELE	50
1 set	*Screws for magnetic catch strike (2): flat head: #5 x 3/4"	HAFELE	
1set	*Screws for magnetic catch (2): pan head: #5 x 3/4"	HAFELE	
1 set	Connecting Brackets: 14 gauge: zinc-plated	HAFELE	500
1 set	Conaxi joint connector fitting: with black trim caps	HAFELE	10 sets
1 set	*Screws (varianta) for conaxi joint connector fitting: 13.5mm long	HAFELE	500
1 set	Concealed Hinges: Full Overlay: nickel plated matt	HAFELE	250
1 set	*Screws for concealed hinges: raised flat head #6 x 3/4"	HAFELE	1000
1 set	*Mounting plates for concealed hinges: face frame: 1/2" overlay	HAFELE	250
1 set	**Screws for mounting plates for concealed hinges: raised flat head #8 x 3/4"	HAFELE	1000
1 set	Pivot Hinges: press fit: 140 degree opening: black	HAFELE	200 pairs
1 set	*Screws for pivot hinges: flat head: #6 x 3/4"	HAFELE	1000
12 (4 per door)	Sliding glass door fitting: runner housing profile: aluminum	HAFELE	1
2	Sliding glass door fitting: double top guide track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: runner: with plain end cap	HAFELE	10
1 set	Sliding glass door fitting: double bottom running track: aluminum	HAFELE	1
1 set	Sliding glass door fitting: spacer bracket (to aid in silicone application): black	HAFELE	2 or 10
1 set	Sliding glass door fitting: buffer: rubber	HAFELE	1 or 10
1 set	Sliding glass door fitting: glass retaining profile	HAFELE	1
1 set	Sliding glass door fitting: rubber strip: for .315" glass	HAFELE	1
1 set	Epoxy slide with fold-down bracket: black	HAFELE	15 pairs
1 set	*Screws for epoxy slides: undercut flathead: #7 X3/4"	HAFELE	1000
1 set	*Screws for epoxy slides: varianta: #5 X 5/8"	HAFELE	500
1	2 tier base cabinet pull out system: min. width = 4 1/2": chrome plated	HAFELE	1
1	Pull out door mounted waste bin: double waste bin: euro cargo 45, grey	HAFELE	1
4	Base plate kitchen drawer organizer: 21" x 24": beech	HAFELE	1
8 sets	*Triangle post to fit into base plate: beech	HAFELE	4
1 set	*Utensil divider, press-fit, short to fit into base plate: beech	HAFELE	1 set
1 set	*Knife holder set, press-fit to fit into base plate: beech	HAFELE	1 set
2	Kitchen rail system: tubular rail: 59" long: stainless steel, matt	HAFELE	1
1	*Mixer holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Cutting board holder for kitchen rail system: chrome plated matt	HAFELE	1
1	*Paper towel holder for kitchen rail system: chrome plated matt	HAFELE	1
2 set	*S hooks for kitchen rail system: nickel plated matt	HAFELE	4
1	*Spice rack for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
1	*Multi purpose shelf for kitchen rail system: s hook attached: chrome plated matt	HAFELE	1
2	Metal pull out storage rack (for inside cabinets): 21 7/8" width, 19 1/4" depth: chrome plated	HAFELE	2

date	
description	
revision	

consultants:



prepared by:
Sarah Shelley
date drawn:
12.6.06



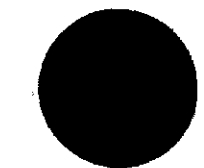
scale: NTS

KITCHEN HARDWARE SCHEDULE

A.10.44

date	
description	
revision	

consultants:



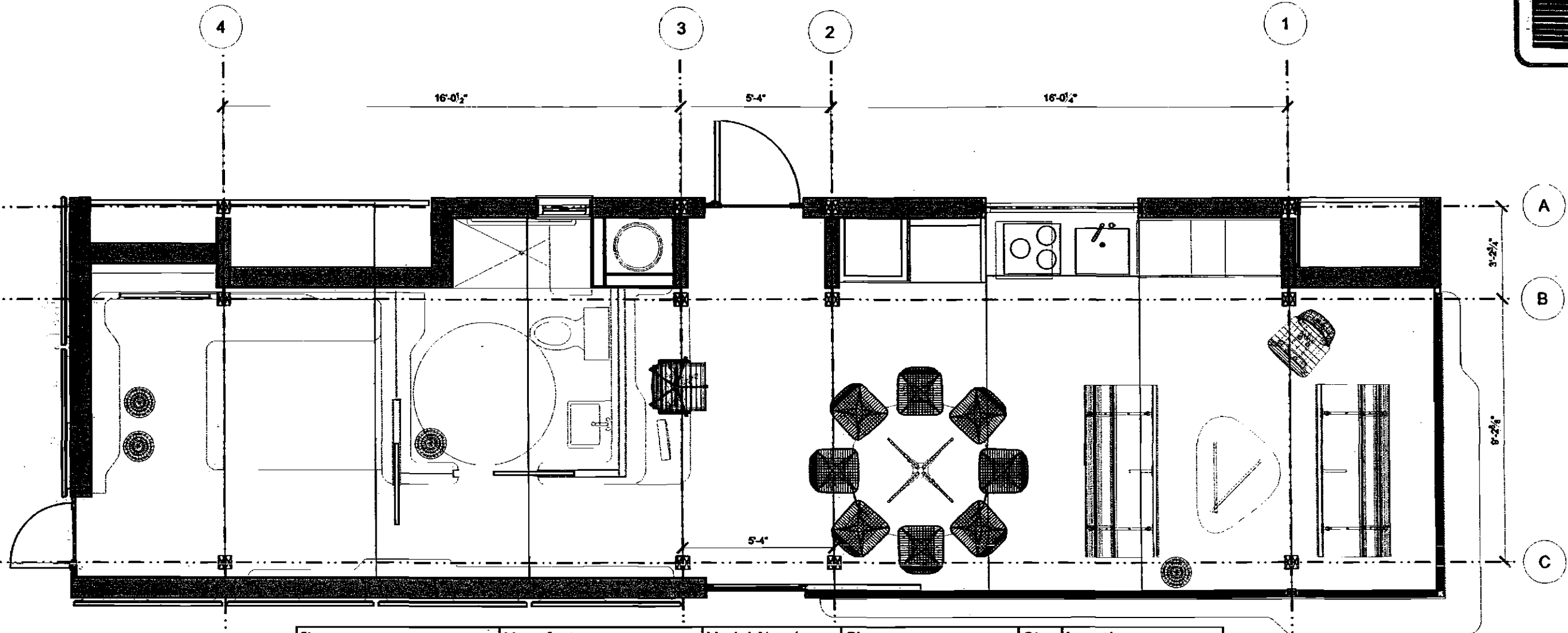
prepared by:
Sarah Shelley
date drawn:
12.6.06



scale: NTS

KITCHEN AND BATHROOM EQUIPMENT LIST

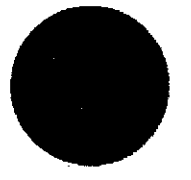
QUANTITY	PRODUCT	MANUFACTURER	BUILT-IN	DIMENSIONS (H x W x D)	LOCATION	NOTES
1	REFRIGERATOR	LIEBHERR	Y	84.25" x 30" x 23.83"	KITCHEN	
1	WASHER/DRYER	LG	Y	33.5" x 23.625" x 24.25"	KITCHEN	
1	COOKTOP	DIVA DE PROVENCE	Y	2.25" x 23.56" x 21"	KITCHEN	
1	EXHAUST FAN		Y		KITCHEN	
1	SINK		Y	22.25" x 20.25" x 5.5"	KITCHEN	
1	FAUCET		Y		KITCHEN	
1	DISHWASHER	FISHER & PAYKEL	Y	16.09" x 23.44" x 22.44"	KITCHEN	
1	MICROWAVE OVEN	MIELE	Y	17.94" x 23.62" x 22.12"	KITCHEN	
1	COFFEE MAKER		N		KITCHEN	
1	BLENDER		N		KITCHEN	
1	LAVATORY		Y		BATHROOM	
1	FAUCET		Y		BATHROOM	
1	WASH CLOSET		Y		BATHROOM	
1	SHOWER		Y	30" x 60"	BATHROOM	
1	SHOWER HEAD		Y		BATHROOM	
1	TELEVISION		N		LIVING ROOM	
1	DVD PLAYER		N		LIVING ROOM	
1	SPEAKER SYSTEM		Y		LIVING ROOM	
1	COMPUTER		N		OFFICE	
1	ALL-IN-ONE HOME OFFICE UNIT		N		OFFICE	
1	SPEAKER SYSTEM		N		OFFICE	



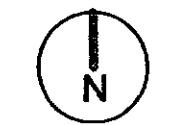
Item	Manufacturer	Model Number	Size	Qty	Location
Eames Sofa Compact	Herman Miller		72.5"w x 30"d x 35"h	2	Living Room
Noguchi Coffee Table	Herman Miller		50"w x 36"d x 15.75"h	1	Living Room
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Living Room
Eames Molded Plywood Lounge Chair	Herman Miller		22"w x 24.25"d x 26.5"h	1	Living Room
Eames Table (white)	Herman Miller		60" dia. X 30"	1	Dining Area
Eames Eiffel Tower Wire Chair with Bikini Pad	Herman Miller		19"w x 21.25"d x 32.75"h	8	Dining Area
Eames Aluminum Management Chair	Herman Miller		23"w x 17"d x 32.75"h	1	Office Area
Leaf Personal Light	Herman Miller			1	Office Area
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	2	Bedroom
Leaf Personal Light	Herman Miller			2	Bedroom
Eames Walnut Stools	Herman Miller		13.25" dia. X 15"h	1	Bathroom

date	description	revision

consultants:



prepared by:
JODI BELL-QUINN
date drawn:
01.29.07



scale: 1/4" = 1'-0"

FURNITURE PLAN + SCHEDULE

A.10.46

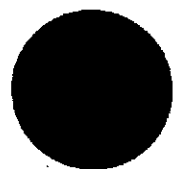
date

description

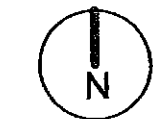
revision

consultants:

ABBR.	FINISH TYPE	LOCATION	NOTES
FF	FLOOR FINISH		
FF_1	CORK	THROUGHOUT INTERIOR	
FF_2	RECYCLED GLASS TILE	BATHROOM	
FF_3	RECLAIMED WOOD DECKING	EXTERIOR DECK	
WF	WALL FINISH		
WF_1	LOW VOC PAINTED GYPSUM BOARD	THROUGHOUT INTERIOR	
WF_3	RECYCLED GLASS TILE	BATHROOM, KITCHEN	
CLG	CEILING FINISH		
CLG_1	RECYCLED GLASS TILE	BATHROOM	
CW	CASEWORK		
CW_1	VENEERED PLYWOOD	THROUGHOUT INTERIOR	



prepared by:
Sarah Shelley
date drawn:
12.6.06

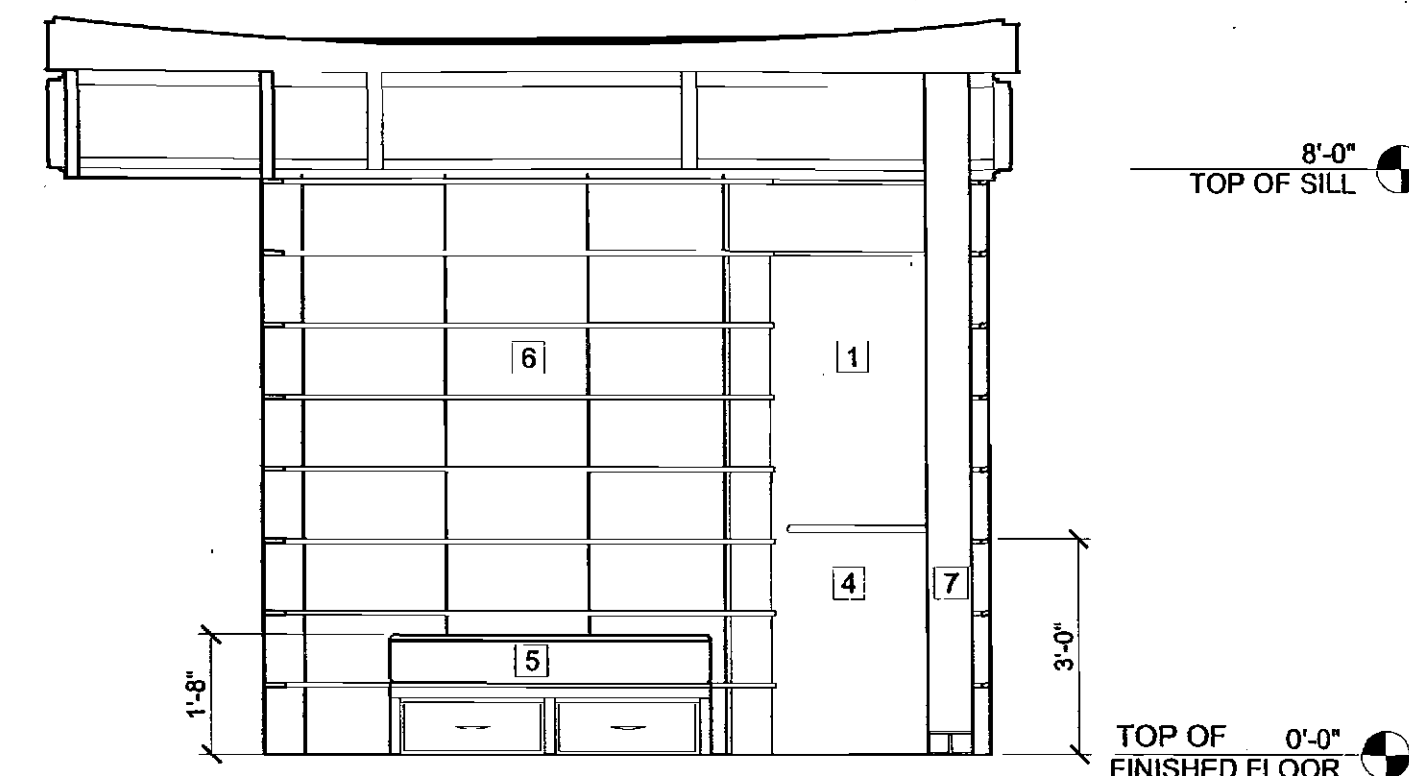
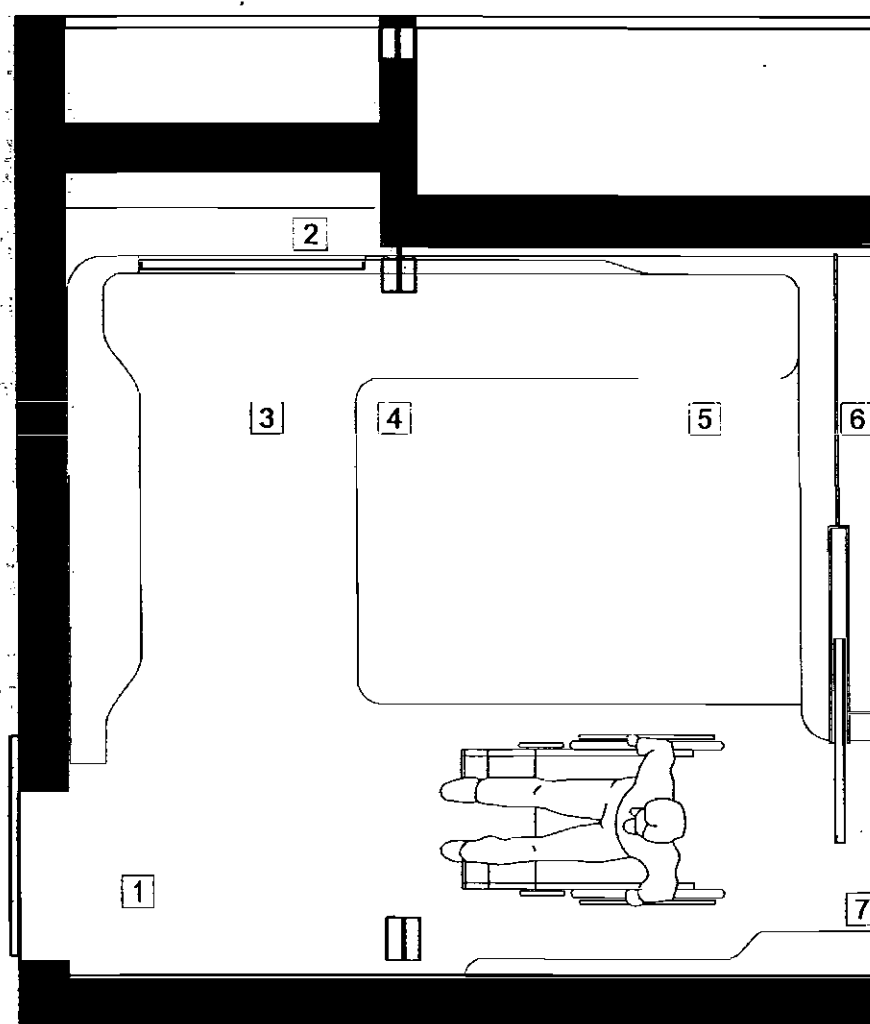


scale: NTS

FINISH SCHEDULE

A.10.47

#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE CLOSET ROD AND SHELVES
3	HANDICAP ACCESSIBLE SHELVEING BETWEEN 1'-0" AND 4'-0"
4	3'-0" WIDE ACCESSIBLE SPACE
5	ACCESSIBLE PLATFORM BED
6	LED NIGHTTIME LIGHTING AROUND PERIMETER
7	SHELVEING AT 3'-0" HEIGHT TO SERVE AS GRAB BAR

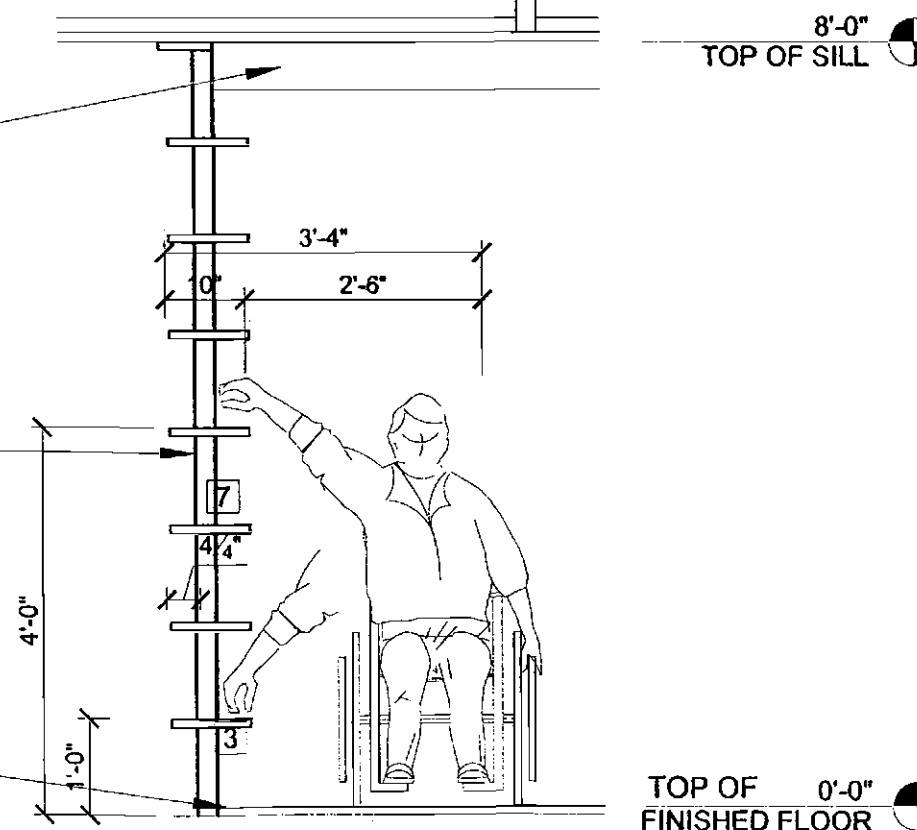


1 ADA DESIGN INTEGRATION
A.10.50 BEDROOM ELEVATION

WATER-RESISTANT
PAINT WALL FINISH

ECORESIN WALL WITH
PLYWOOD SHELVEING

NON-SLIP FLOORING

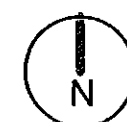


2 ADA DESIGN INTEGRATION
A.10.50 BEDROOM SECTION

date	description	revision

consultants:

prepared by:
Sarah Shelley
date drawn:
12.6.06

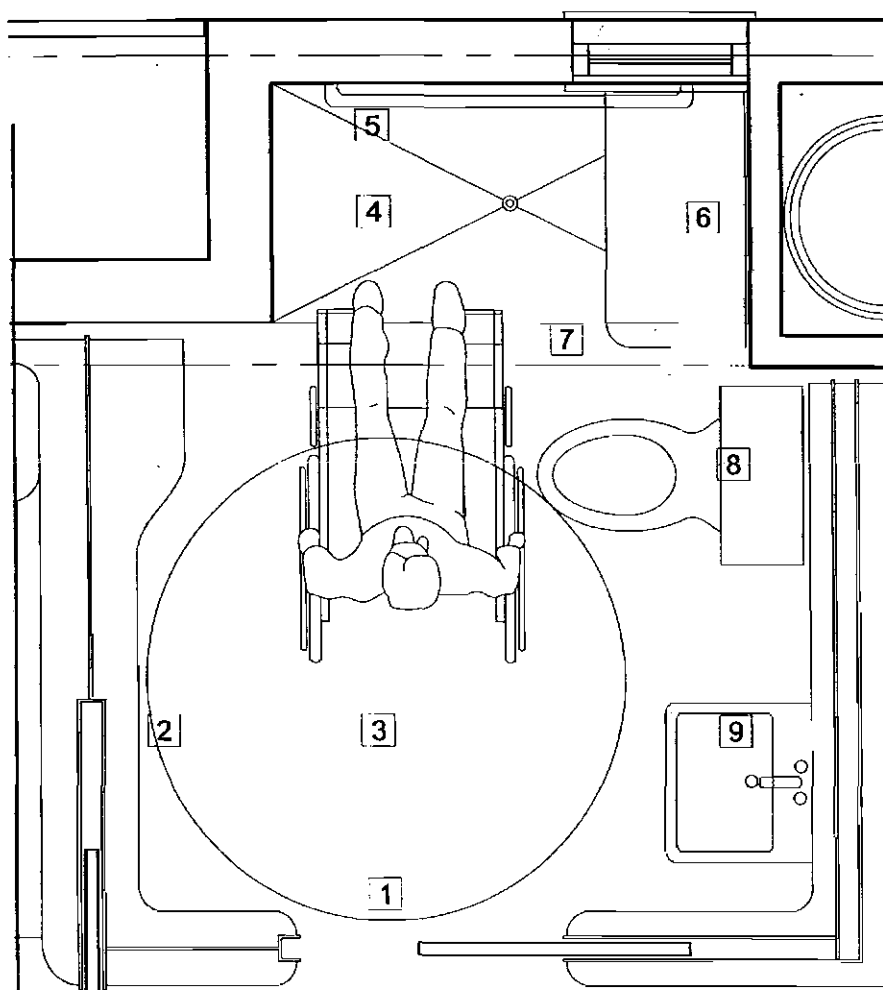


scale: as indicated

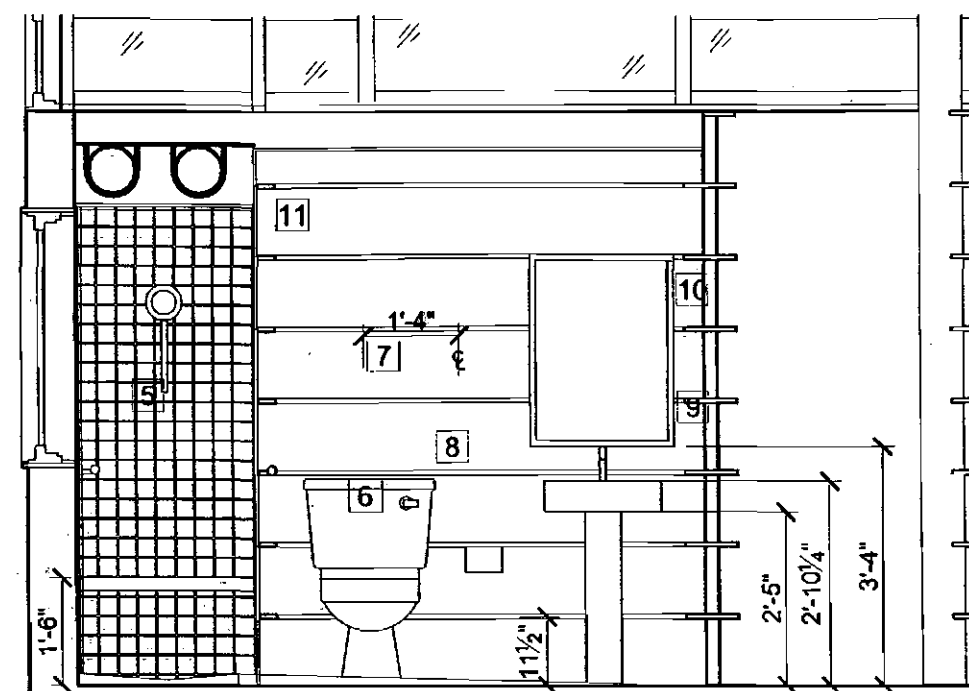
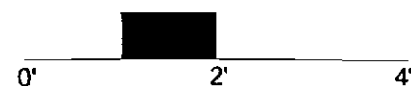
A.10.50

ADA DESIGN INTEGRATION - BEDROOM LAYOUT

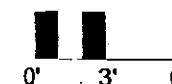
#	UNIVERSAL DESIGN FEATURE
1	2'-10" CLEAR OPENING AT ALL DOORS
2	HANDICAP ACCESSIBLE SHLEVING BETWEEN 1'-0" AND 4'-0"
3	5'-0" DIA. CLEAR SPACE TO TURN
4	30" X 60" ROLL IN SHOWER
5	4'-4" LONG GRAB BAR AT SHOWER
6	FOLD DOWN SEAT AT SHOWER
7	1'-6" LONG GRAB BAR AT TOILET
8	ADA COMPLIANT TOILET
9	ADA COMPLIANT SINK AND LAVATORY
10	ADJUSTABLE-ANGLE MIRROR
11	ADA COMPLIANT SHOWER HEAD



3 ADA DESIGN INTEGRATION
A.10.51 BATHROOM PLAN



1 ADA DESIGN INTEGRATION
A.10.51 BATHROOM ELEVATION



8'-0" TOP OF SILL

0'-0" TOP OF FINISHED FLOOR

8'-0" CEILING HEIGHT

WATER-RESISTANT PAINT WALL FINISH

ECORESIN WALL WITH PLYWOOD SHELVING

LED DOWNLIGHT FIXTURE

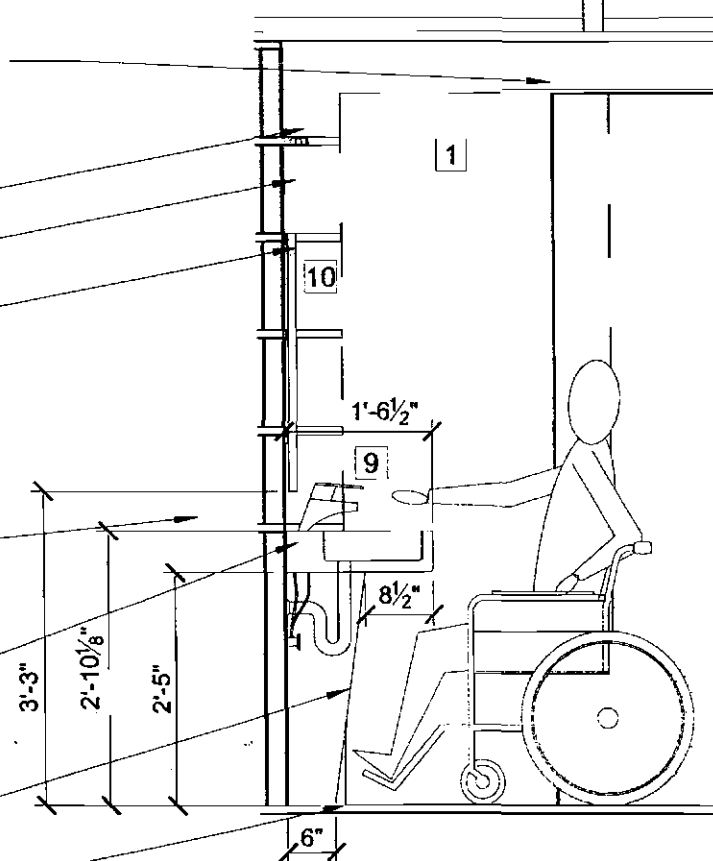
MIRROR AT 40" A.F.F. INTEGRATED INTO WALL

ADA COMPLIANT LAVATORY
MANUFACTURER: GROHE
MODEL: CHIARA NEU 32 362 000
SINGLE HANDLE LAVATORY, CENTER SET

ADA COMPLIANT SINK
MANUFACTURER: DURAVIT
MODEL: VERO #045450
WALL-MOUNT WASH BASIN

ADA COMPLIANT SIPHON
MANUFACTURER: VERO
MODEL: VERO #005036

NON-SLIP FLOORING



2 ADA DESIGN INTEGRATION
A.10.51 BATHROOM ELEVATION



0'-0" TOP OF FINISHED FLOOR

GEORGIA TECH SOLAR DECATHLON 07

date	description	revision

consultants:

prepared by:
Sarah Shelley
date drawn:
12.6.06

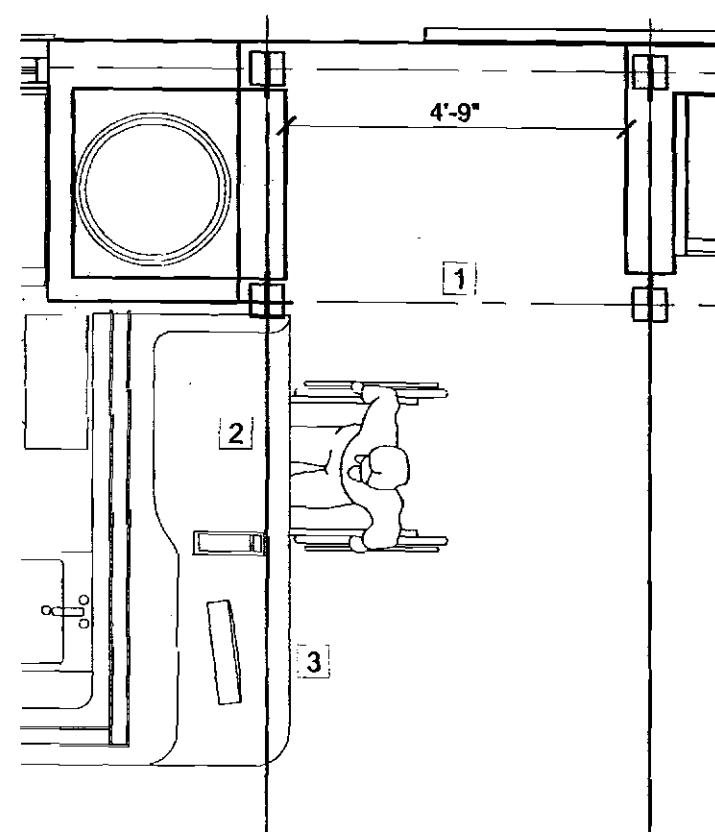


scale: as indicated

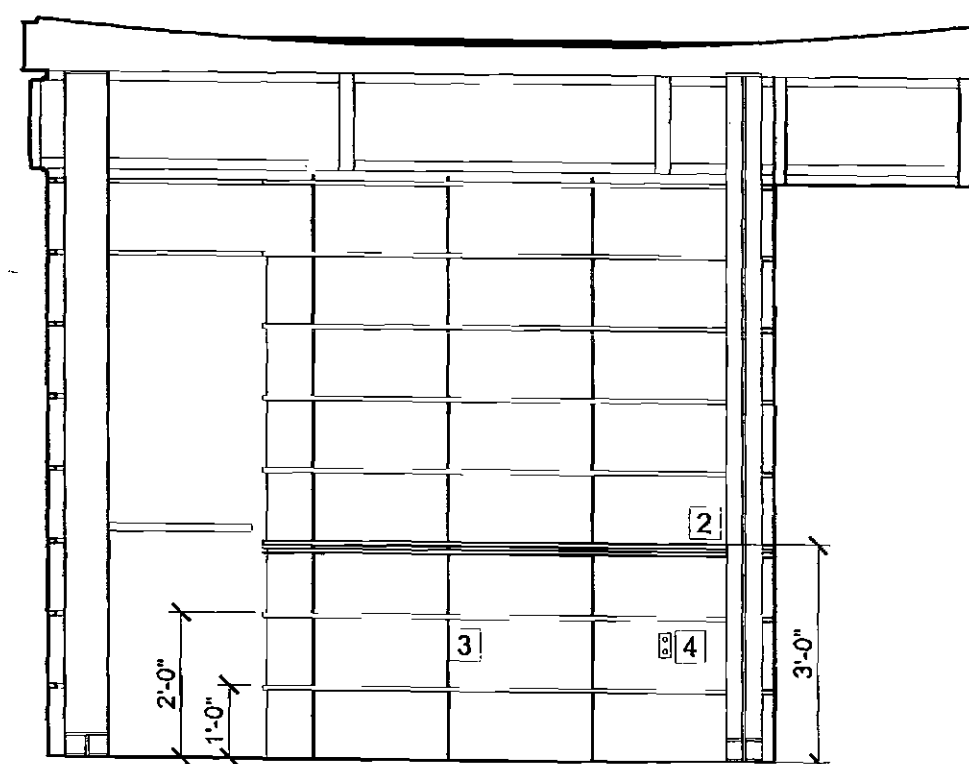
A.10.51

ADA DESIGN INTEGRATION - BATHROOM LAYOUT

#	UNIVERSAL DESIGN FEATURE
1	4'-8" EXTRA WIDE ACCESSIBLE HALLWAY
2	34" HIGH ACCESSIBLE DESK/ WORK SURFACE
3	EASY TO REACH SHELVING TO STORE OFFICE EQUIPMENT
4	OUTLETS LOCATED AT AN EASY TO REACH HEIGHT



2 ADA DESIGN INTEGRATION
HOME OFFICE PLAN



1 ADA DESIGN INTEGRATION
HOME OFFICE ELEVATION



TOP OF SILL 8'-0"

TOP OF FINISHED FLOOR 0'-0"

date	description	revision

consultants:

prepared by:
Sarah Shelley
date drawn:
12.6.06



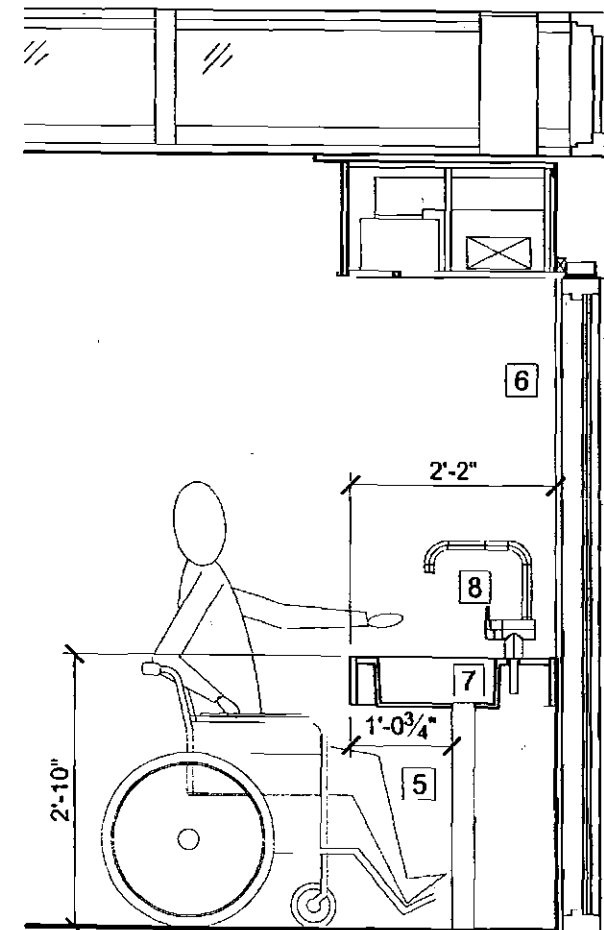
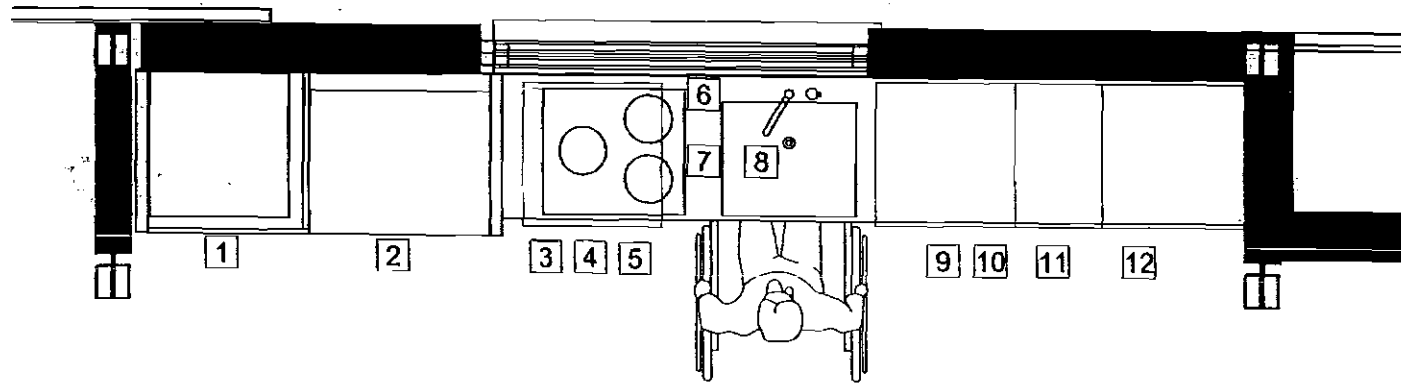
scale: 3/8" : 1' 0"

A.10.52

ADA DESIGN INTEGRATION - HOME OFFICE LAYOUT

#	UNIVERSAL DESIGN FEATURE
1	FRONT LOADING WASHER/ DRYER UNIT
2	BOTTOM- FREEZER REFRIGERATOR
3	FLAT SURFACE ELECTRIC COOKTOP
4	ROLL OUT STORAGE CART
5	OPEN SPACE BENEATH COOKTOP AND SINK
6	LARGE WINDOW TO ALLOW VIEWS FOR ALL HEIGHTS
7	34" HIGH ACCESSIBLE COUNTERTOP

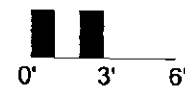
#	UNIVERSAL DESIGN FEATURE
8	ADA COMPLIANT SINK AND FAUCET
9	BRIGHT LED TASKLIGHTING UNDERNEATH SHELVES
10	UNDERCOUNTER DISH DRAWER
11	PULL-OUT DRAWERS WITH U-SHAPED HANDLES
12	UNDERCOUNTER MOUNTED MICROWAVE OVEN



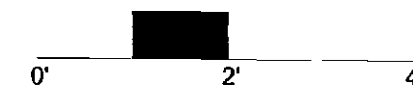
8'-0"
TOP OF SILL

0'-0"
TOP OF
FINISHED FLOOR

2 ADA DESIGN INTEGRATION
A.10.53 KITCHEN PLAN



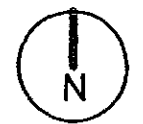
2 ADA DESIGN INTEGRATION
A.10.53 KITCHEN SECTION



date	description	revision

consultants:

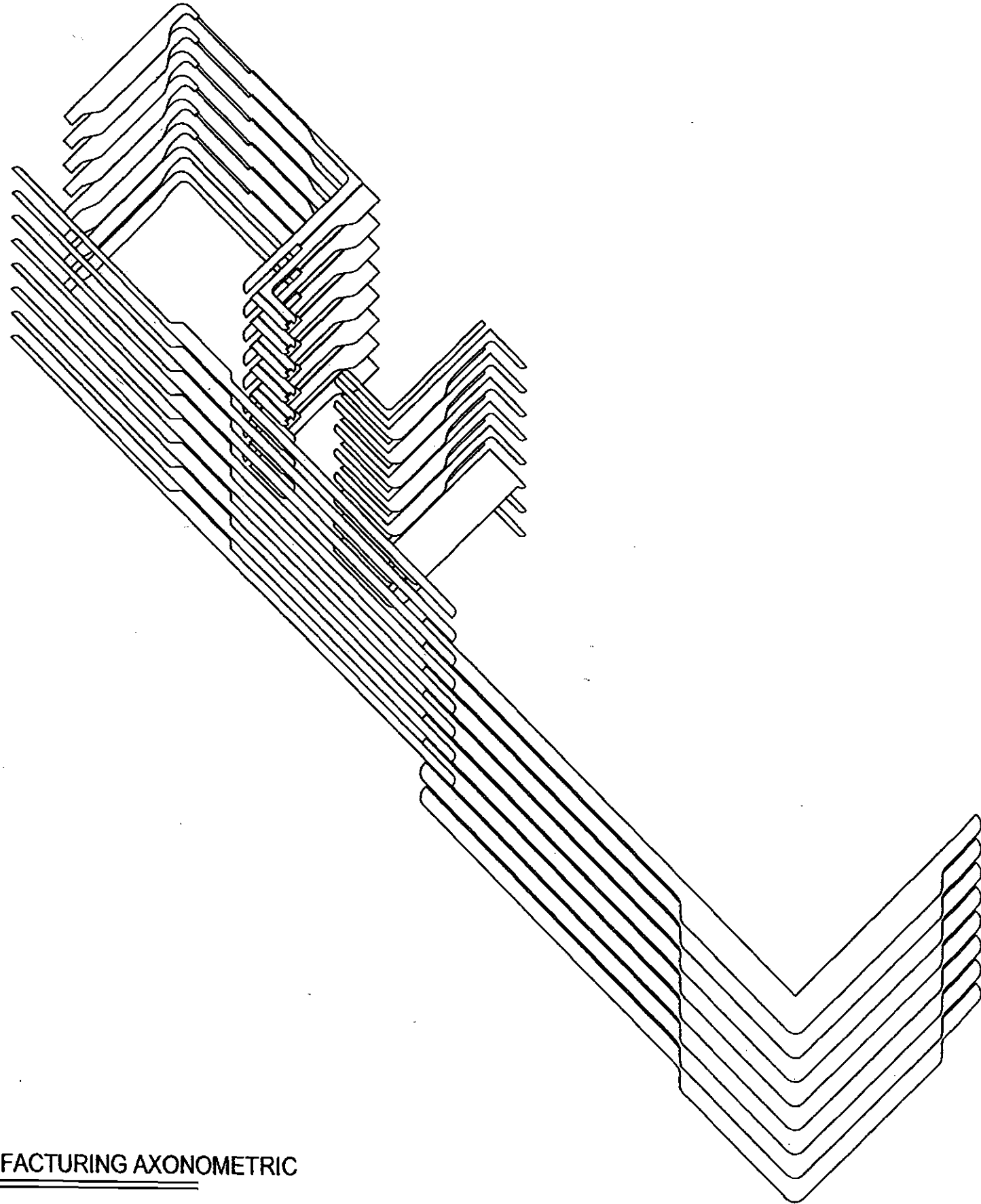
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Sarah Shelley
date drawn:
12.6.06



scale: as indicated

A.10.53

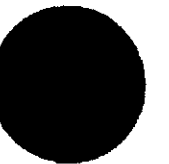
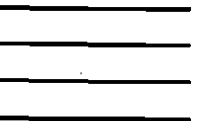
ADA DESIGN INTEGRATION - KITCHEN LAYOUT



A1 DIGITAL MANUFACTURING AXONOMETRIC
D.1.0

revision	description	date

consultants:



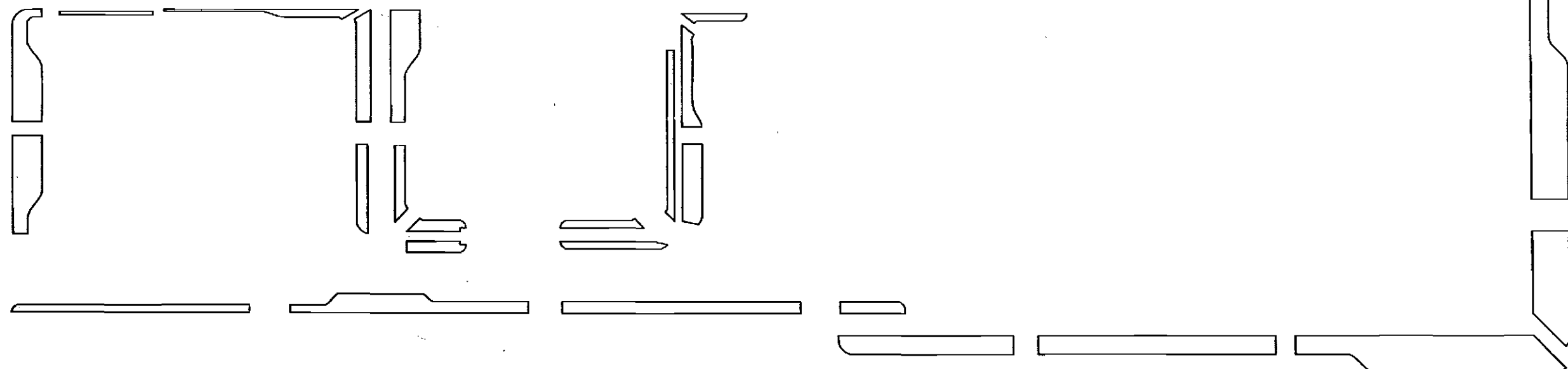
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Kevin Short
date drawn:
12.03.06



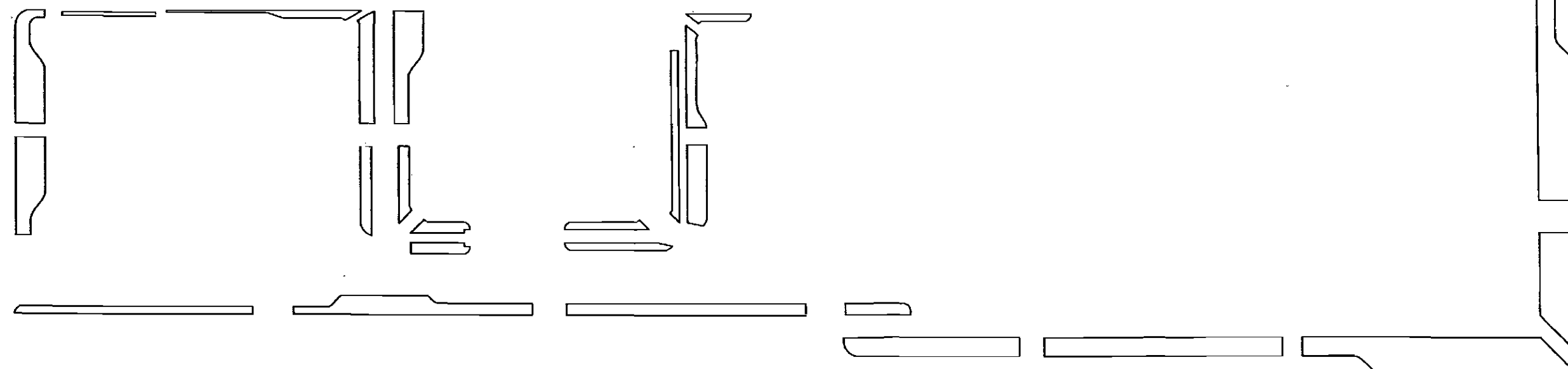
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D.1.0

DIGITAL MANUFACTURING AXONOMETRIC



A1 1' 0" AWPL CUTS
D.1.1



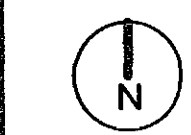
A2 2' 0" AWPL CUTS
D.1.1

date	description	revision

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06



scale: 1/4" : 1' 0"

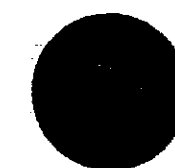
D.1.1

1' 0" AWPL CUTS AND 2' 0" AWPL CUTS



date	
revision	
description	

consultants:



prepared by:

Kevin Short

date drawn:

12.03.06



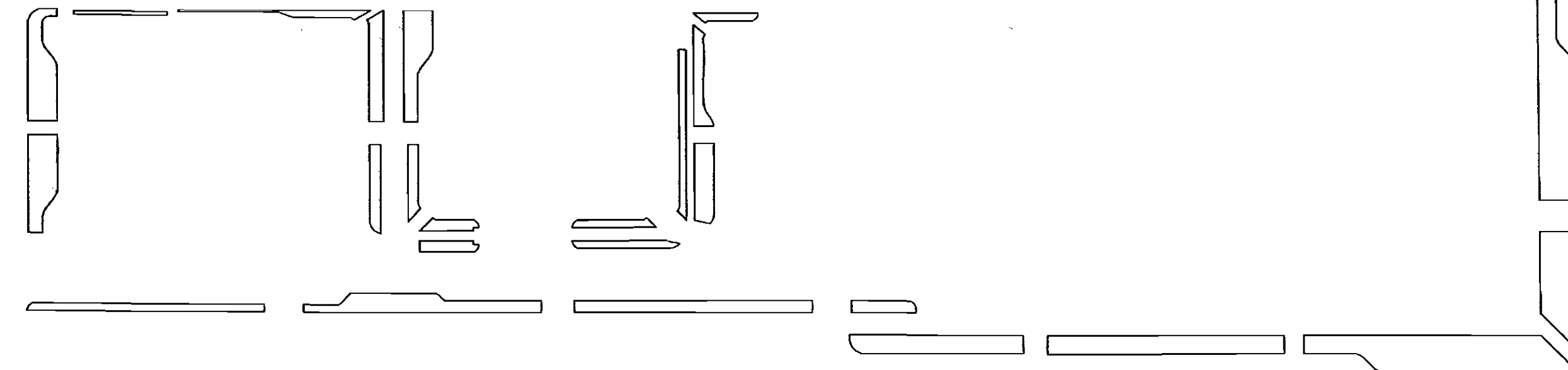
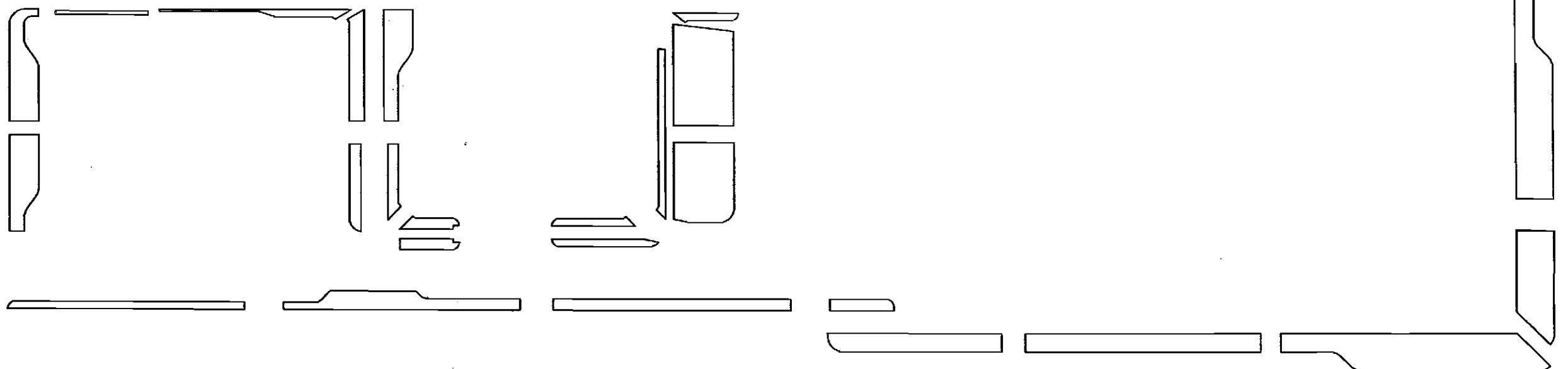
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D.1.2

3' 0" AWPL CUTS AND 4' 0" AWPL CUTS

A1 3' 0" AWPL CUTS
D.1.2

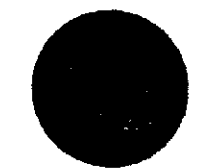
A2 4' 0" AWPL CUTS
D.1.2



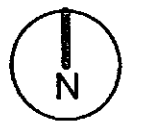


revision	description	date

consultants:



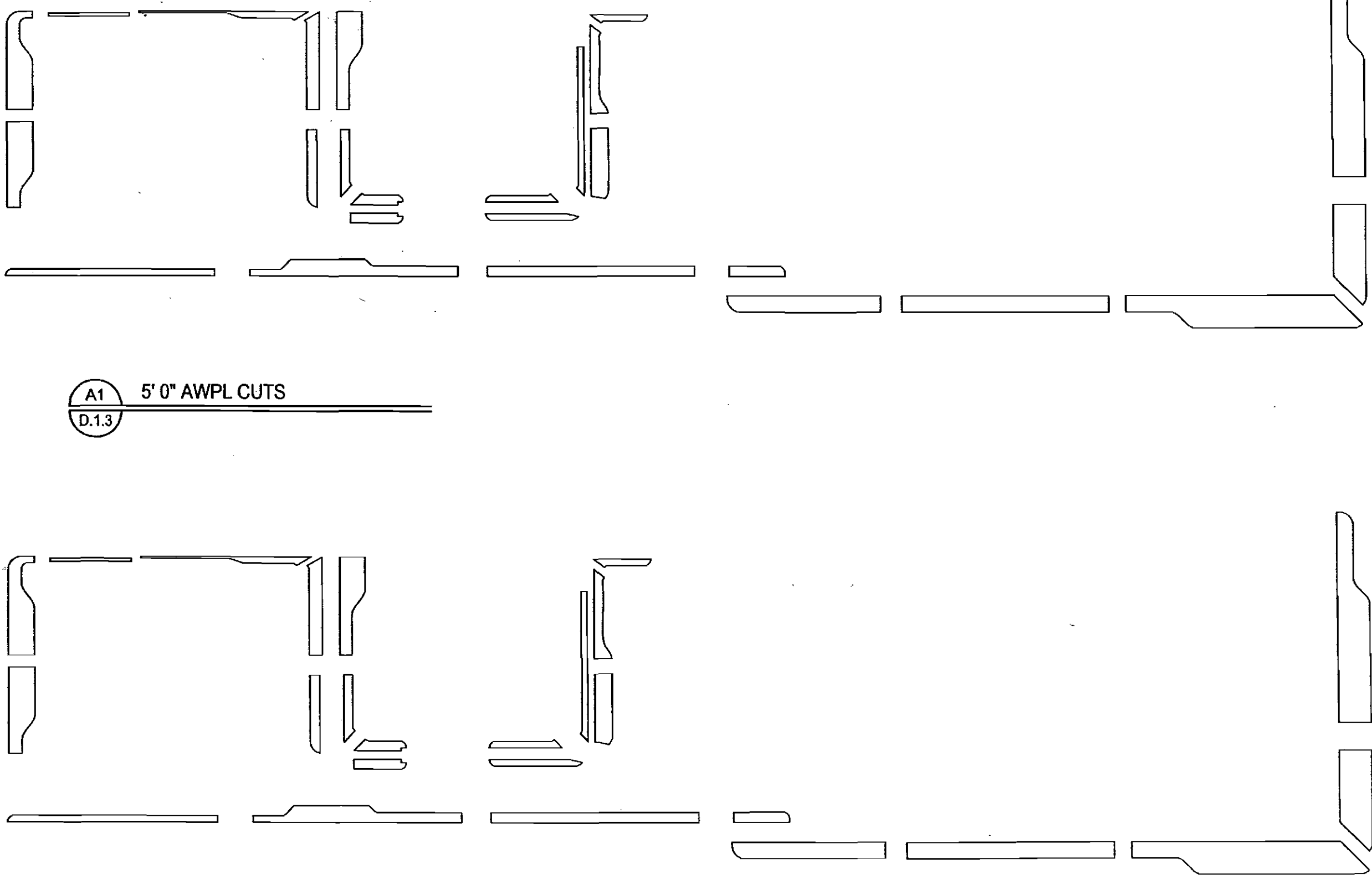
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date drawn:
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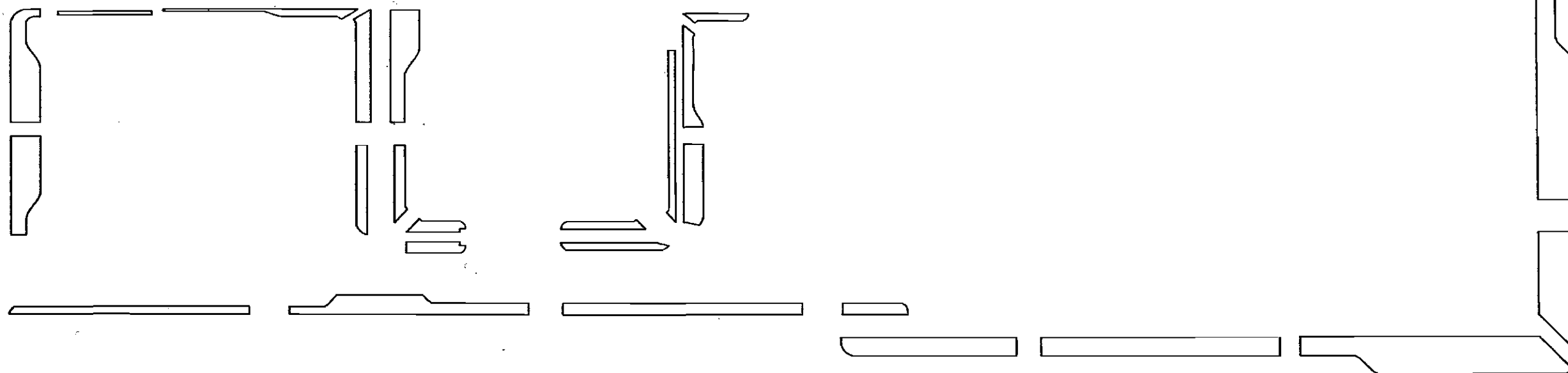


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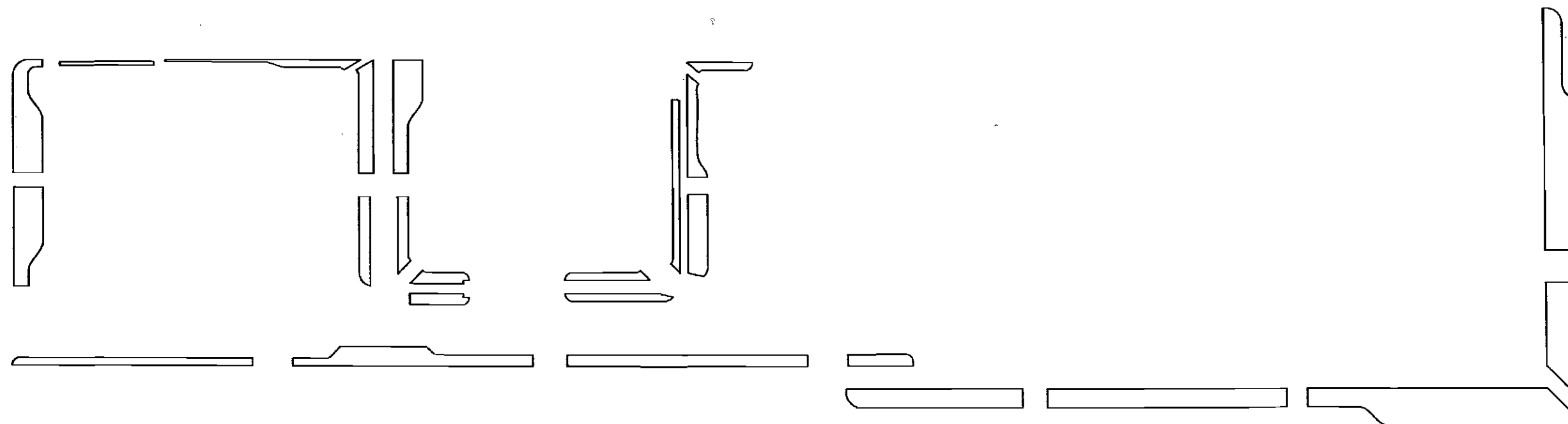
D.1.3

5' 0" AWPL CUTS AND 6' 0" AWPL CUTS





A1 7' 0" AWPL CUTS
D.1.4



A2 8' 0" AWPL CUTS
D.1.4

date	
description	
revision	

consultants:



prepared by:
Kevin Short
date drawn:
12.03.06



scale: 1/4" : 1' 0"

D.1.4

7' 0" AWPL CUTS AND 8' 0" AWPL CUTS

revision	description	date

consultants:



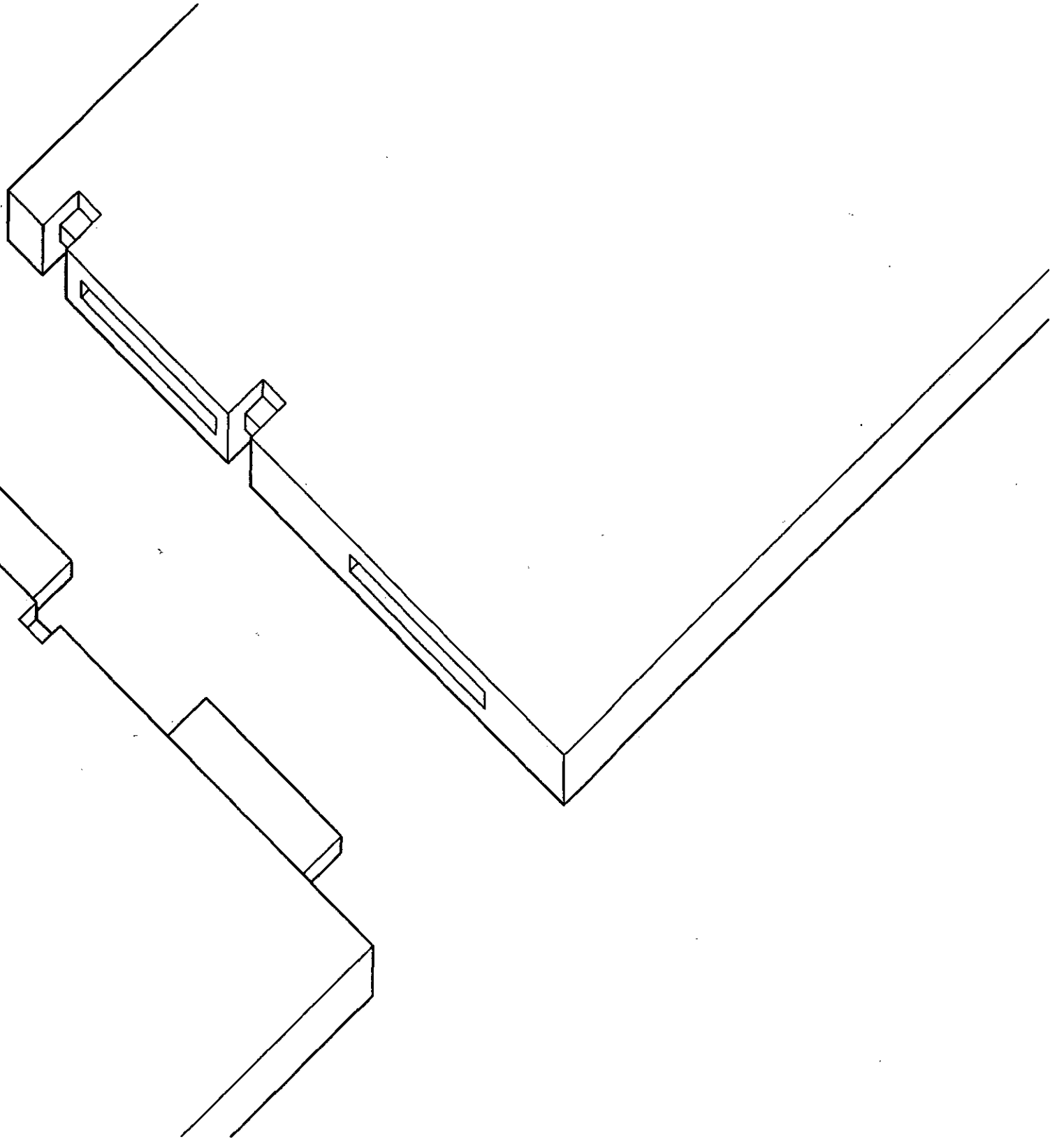
prepared by:
Kevin Short
date drawn:
12.03.06



scale: 6" : 1' 0"

D.3.0

INTERIOR AWPL CONNECTION DETAILS



A1 INTERIOR AWPL CONNECTION DETAILS
D.3.0

GENERAL NOTES

1.00 GENERAL

1.01 ALL CONSTRUCTION SHALL CONFORM TO THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE, 2000 EDITION (2000 INTERNATIONAL BUILDING CODE WITH GEORGIA STATE AMENDMENTS DATED JANUARY 1, 2006). REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST STANDARD OR CODE ADOPTED AND PUBLISHED. PROVISION SHALL ALSO BE MADE TO SATISFY THE REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE, 2007 EDITION, PER THE 2007 SOLAR DECATHLON RULES AND REGULATIONS, DATED MAY 3, 2006.

1.02 SUPERIMPOSED GRAVITY LOADS:

OCCUPANCY OR USE	LIVE LOAD
RESIDENTIAL	50 PSF (PER SOLAR DECATHLON)
DECKS & RAMPS	50 PSF
STAIRS	100 PSF
MISCELLANEOUS (DEAD LOAD)	10 PSF
ROOF	20 PSF
ROOF DEAD LOAD (MINIMUM)	17 PSF

* OR ACTUAL WEIGHT OF EQUIPMENT, WHICHEVER IS GREATER.
LIVE LOAD REDUCTION IS TAKEN IN ACCORDANCE WITH THE CODE.

1.03 WIND LOADS:

3 SEC. GUST WIND SPEED = 90 MPH
IMPORTANCE FACTOR, $I_w = 1.00$
BUILDING CATEGORY II
WIND EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT, $G_{Cpi} = +/-0.18$
(INWARD & OUTWARD)

2.00 FOUNDATIONS

2.01 THE DESIGN OF FOUNDATIONS IS BASED ON THE CRITERIA ESTABLISHED BY THE 2007 SOLAR DECATHLON RULES AND REGULATIONS DATED MAY 3, 2006, AND INCLUDES AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

3.00 STRUCTURAL STEEL

3.01 ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", DATED JUNE 1, 1989, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, DATED DECEMBER 1, 1993, AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", ADOPTED JUNE 10, 1992.

3.02 SHOP DRAWINGS PREPARED IN ACCORDANCE WITH THE LATEST "STRUCTURAL STEEL DETAILING MANUAL" OF THE AISC SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED.

3.03 UNLESS NOTED OTHERWISE, STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, GRADE 50. CHANNELS, ANGLES AND PLATES MAY BE ASTM A36 UNLESS NOTED OTHERWISE. SQUARE AND RECTANGULAR TUBES SHALL CONFORM TO ASTM A500, GRADE B. ROUND PIPES SHALL CONFORM TO ASTM A53, GRADE B.

3.04 STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED, AS NOTED ON DRAWINGS.

A) . BOLTED JOINTS SHALL CONFORM TO AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A490 BOLTS". BOLTS SHALL CONFORM TO ASTM A325, AND SHALL BE MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE. BOLTS FOR MOMENT FRAMES AND DIAGONAL BRACING CONNECTIONS SHALL BE CONSIDERED SLIP CRITICAL; ALL OTHERS MAY BE CONSIDERED BEARING TYPE UNLESS OTHERWISE NOTED. PROVIDE DIRECT TENSION INDICATORS (LOAD INDICATING WASHERS OR SNAP OFF BOLTS) IN ACCORDANCE WITH ASTM F959 AT ALL HIGH STRENGTH BOLTS.

B) . WELDS SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY, AWS D1.1. USE E70XX ELECTRODES. WELDING PROCESSES AND OPERATORS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATIONS PROCEDURES". WELDERS SHALL CARRY PROOF OF QUALIFICATIONS ON THEIR PERSONS.

3.05 ANCHOR BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.

3.06 DO NOT USE GAS CUTTING TORCHES FOR CORRECTING FABRICATION ERRORS IN THE STRUCTURAL FRAMING.

3.07 WHEN SPECIFICALLY NOT DETAILED ON THE DESIGN DRAWINGS PROVIDE THE GREATER OF ONE OF THE FOLLOWING BEAM END CONNECTIONS:

MINIMUM 5/16" THICK DOUBLE ANGLE SHEAR CONNECTION, FULL DEPTH OF THE BEAM, WELDED OR BOLTED WITH VERTICAL BOLT SPACING = 3", OR

WHERE BEAM REACTIONS ARE SHOWN, CONNECTIONS SHALL DEVELOP THE REACTION GIVEN, OR

WHEN BEAM REACTIONS ARE NOT SHOWN, CONNECTIONS SHALL BE PROPORTIONED TO SUPPORT 60% OF THE MAX. FACTORED UNIFORM LOAD CAPACITY (ULC) SHOWN IN THE FACTORED UNIFORM LOAD TABLES, OF THE AISC LRFD MANUAL, FOR THE GIVEN BEAM, SPAN, AND GRADE OF STEEL SPECIFIED. FOR COMPOSITE BEAMS, PROPORTION CONNECTIONS FOR 100% OF THE ULC.

CONNECTIONS SHALL BE PROPORTIONED FOR THE ECCENTRICITY BETWEEN THE CONNECTION CENTROID AND THE CENTROID OF THE SUPPORTING MEMBER.

3.08 PROVIDE A SHOP COAT OF STANDARD PRIMER PAINT. PRIMER TO BE COMPATIBLE WITH FINISH COAT. TOUCH UP AREAS DAMAGED IN HANDLING AND ERECTION WITH THE SAME PAINT USED FOR SHOP COAT. STEEL SURFACES TO BE WELDED OR ENCASED IN CONCRETE OR FIREPROOFING, CONNECTIONS DESIGNATED AS SLIP CRITICAL TYPE, OR SURFACES RECEIVING WELDED SHEAR CONNECTORS IN THE FIELD SHALL NOT BE PAINTED.

3.9 STEEL CONSTRUCTION SHALL BE INSPECTED BY A QUALIFIED TESTING AGENCY.

A) . BOLTED CONNECTIONS SHALL BE INSPECTED IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS".
B) . ALL FILLET WELDS SHALL BE VISUALLY INSPECTED.
C) . ALL PENETRATION WELDS SHALL BE TESTED IN ACCORDANCE WITH ASTM E164.
D) . WRITTEN REPORTS SHALL BE SUBMITTED DESCRIBING ALL INSPECTIONS AND INDICATING ANY NON-CONFORMING WORK.
E) . RE-INSPECT NON-CONFORMING WORK AFTER IT IS CORRECTED.

3.10 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. THE STRUCTURAL ELEMENTS ARE UNSTABLE UNTIL THE STRUCTURE IS COMPLETED IN ACCORDANCE WITH THE PLANS.

4.00 COLD FORMED METAL FRAMING

4.01 UNLESS NOTED OTHERWISE, COLD-FORMED METAL FRAMING SHALL COMPLY WITH ASTM C645, A568, AND A446. ALL MEMBERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A525, OR ALUMINUM/ZINC COATED IN ACCORDANCE WITH ASTM A792.

5.00 WOOD

GEORGIA TECH SOLAR DECATHLON 07

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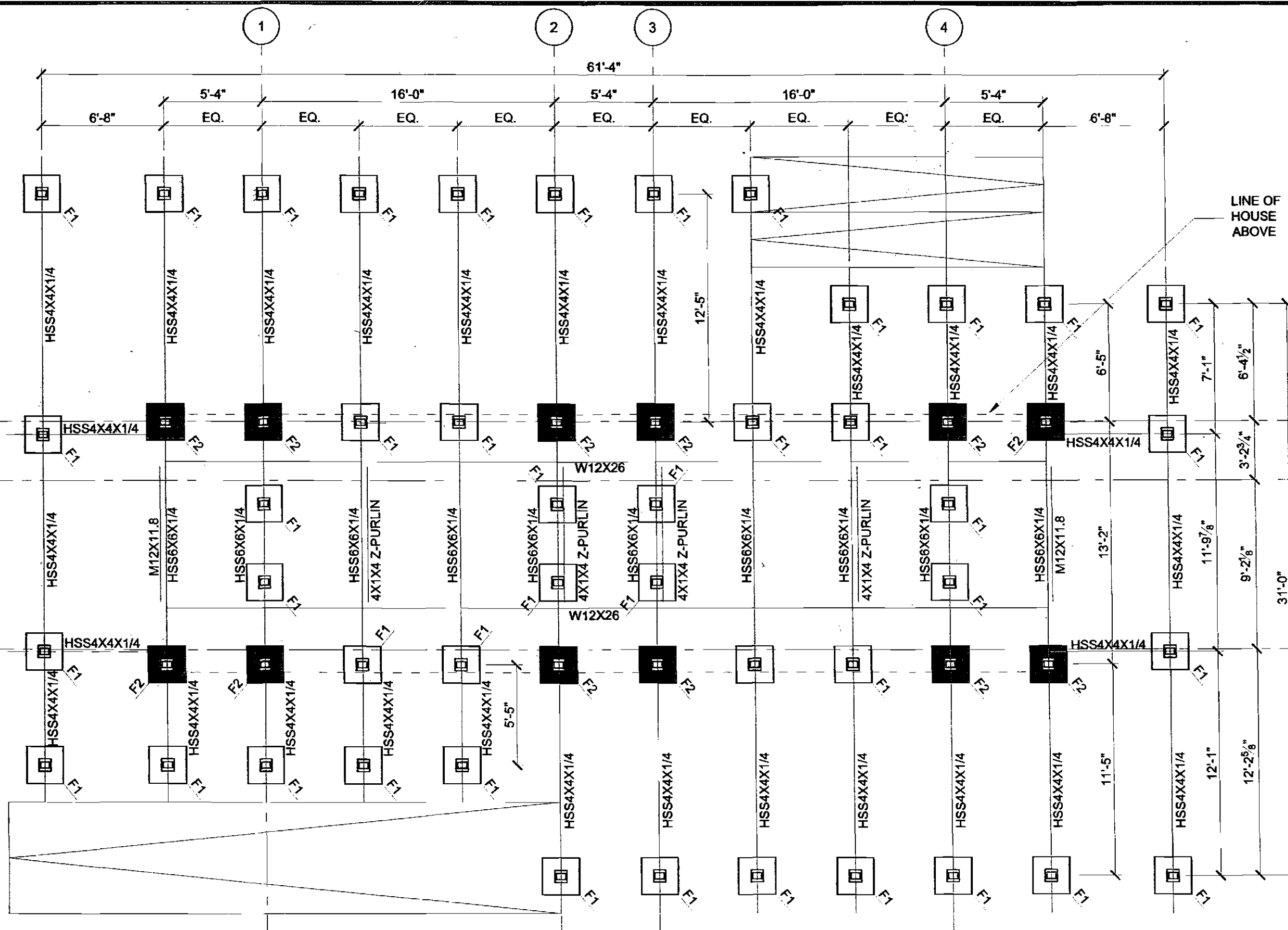
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prepared by:
Jamie O'Kelley
date drawn:
12.04.06

scale: none

S.O.O

STRUCTURAL GENERAL NOTES

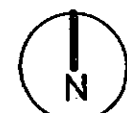


1
S.1.0
PIER PLAN

revision	description

consultants:

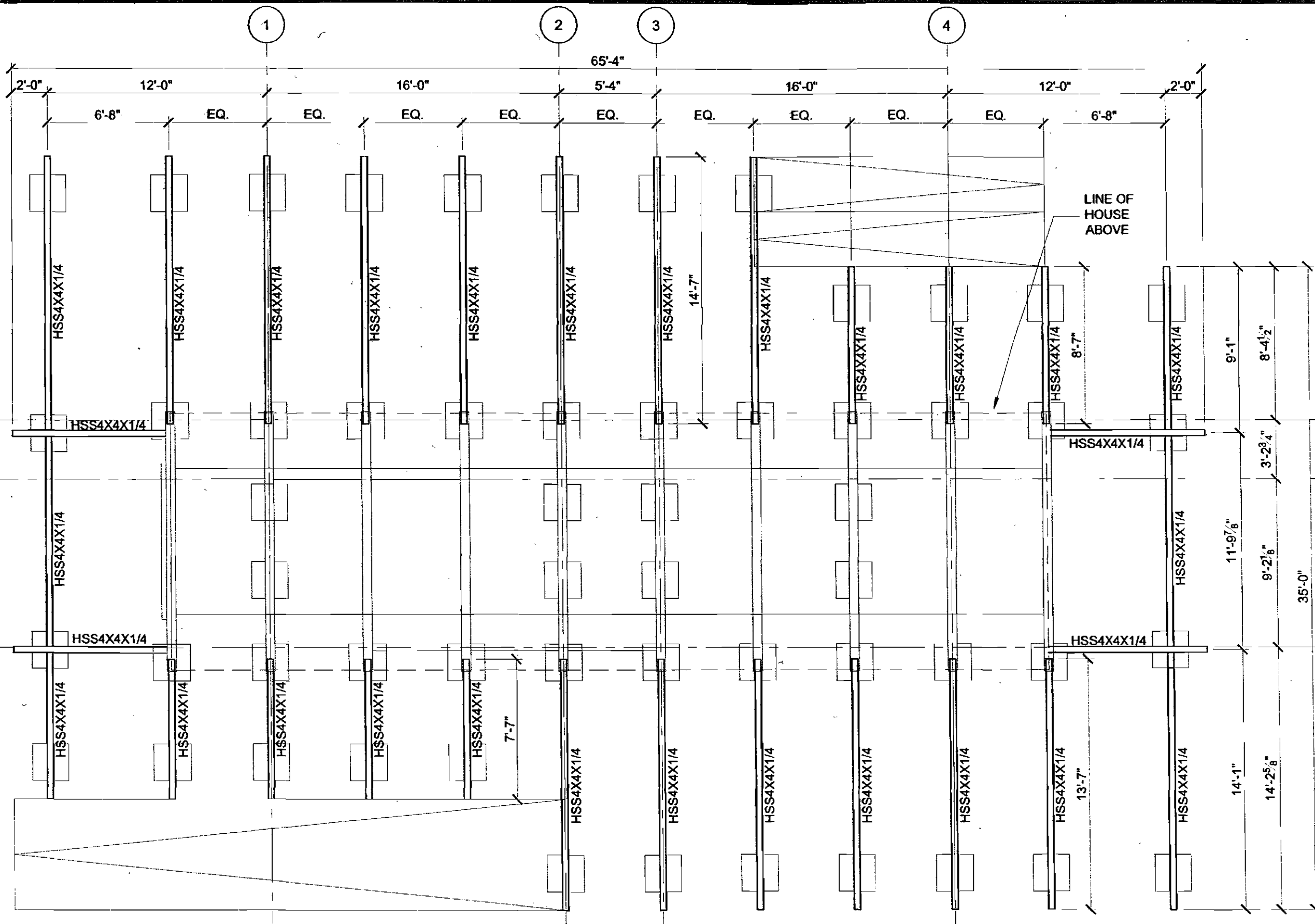
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JAMIE O'KELLEY
C.VAN KLEY
date drawn:
12.04.06
3.06.07



scale: 3/16"=1'-0"

S.1.0

PIER PLAN

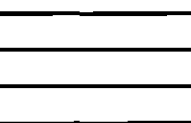


1 DECK FRAMING PLAN
S.1.0a



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revision	

consultants:



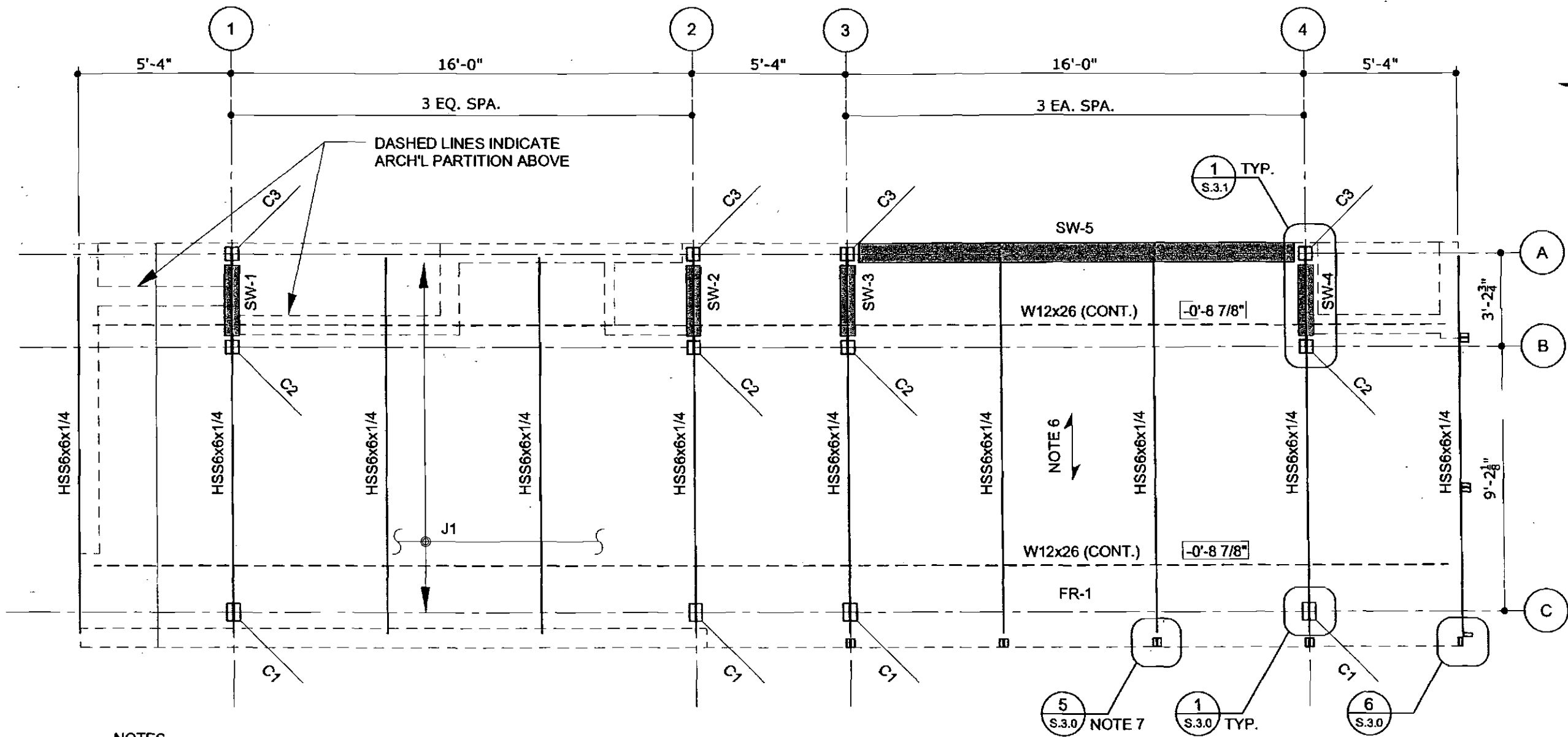
prepared by:
C.VAN KLEY
date drawn:
3.06.07



scale: 3/16"=1'-0"

DECK FRAMING PLAN

S.1.0a



NOTES

1. **+X'-X"** INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF **+0'-0"**. TOP OF STEEL ELEVATION AT FLOOR IS **-0'-2 7/8"** U.N.O.
2. **SW-1** INDICATES STRUCTURAL WOOD PANEL SHEARWALL CONSISTING OF TWO LAYERS OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1. SEE SHEET S.2.0 FOR FASTENING SCHEDULE.
3. **FR-1** INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATION ON SHEET S.2.0.
4. **C1** INDICATES COMPOSITE WOOD/ STEEL COLUMN. SEE SHEET S.2.1 FOR COMPOSITE COLUMN SCHEDULE.
5. **J1** INDICATES CONTINUOUS 2x8 (NOMINAL) WOOD JOISTS @ 16" o/c.
6. **NOTE 6** INDICATES SPAN OF 3/4" APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1.
7. **NOTE 7** INDICATES TYPICAL VERTICAL MULLION. SEE ARCH'L. DRAWINGS FOR LOC'NS.

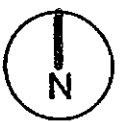
1 FLOOR FRAMING PLAN
S.1.1



date	
revision	
description	

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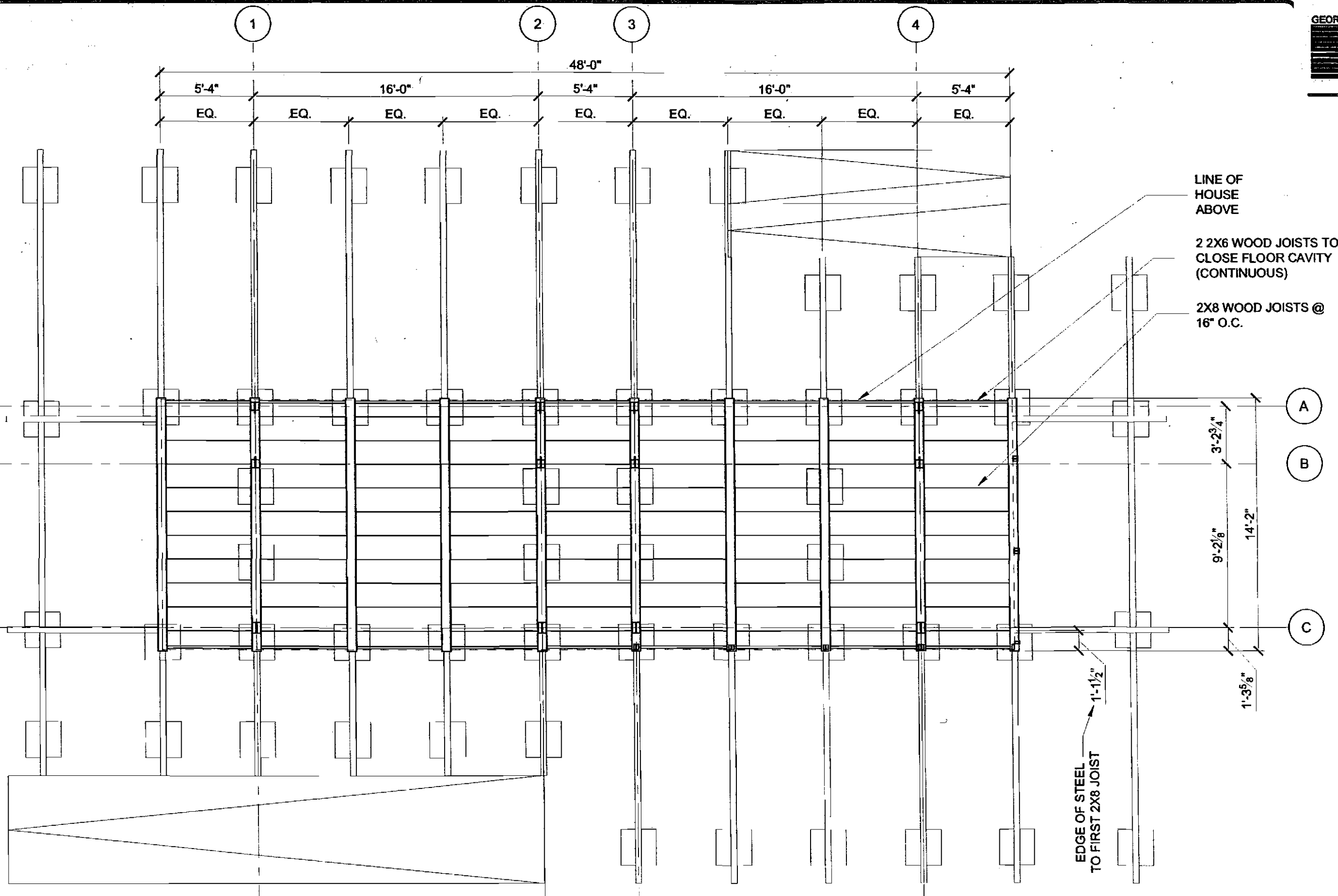
prepared by:
Jamie O'Kelley
date drawn:
12.04.06



scale: 1/4"=1'-0"

S.1.1

FLOOR FRAMING PLAN



date	
description	
revision	

consultants:

prepared by:
C.VAN KLEY
date drawn:
3.06.07

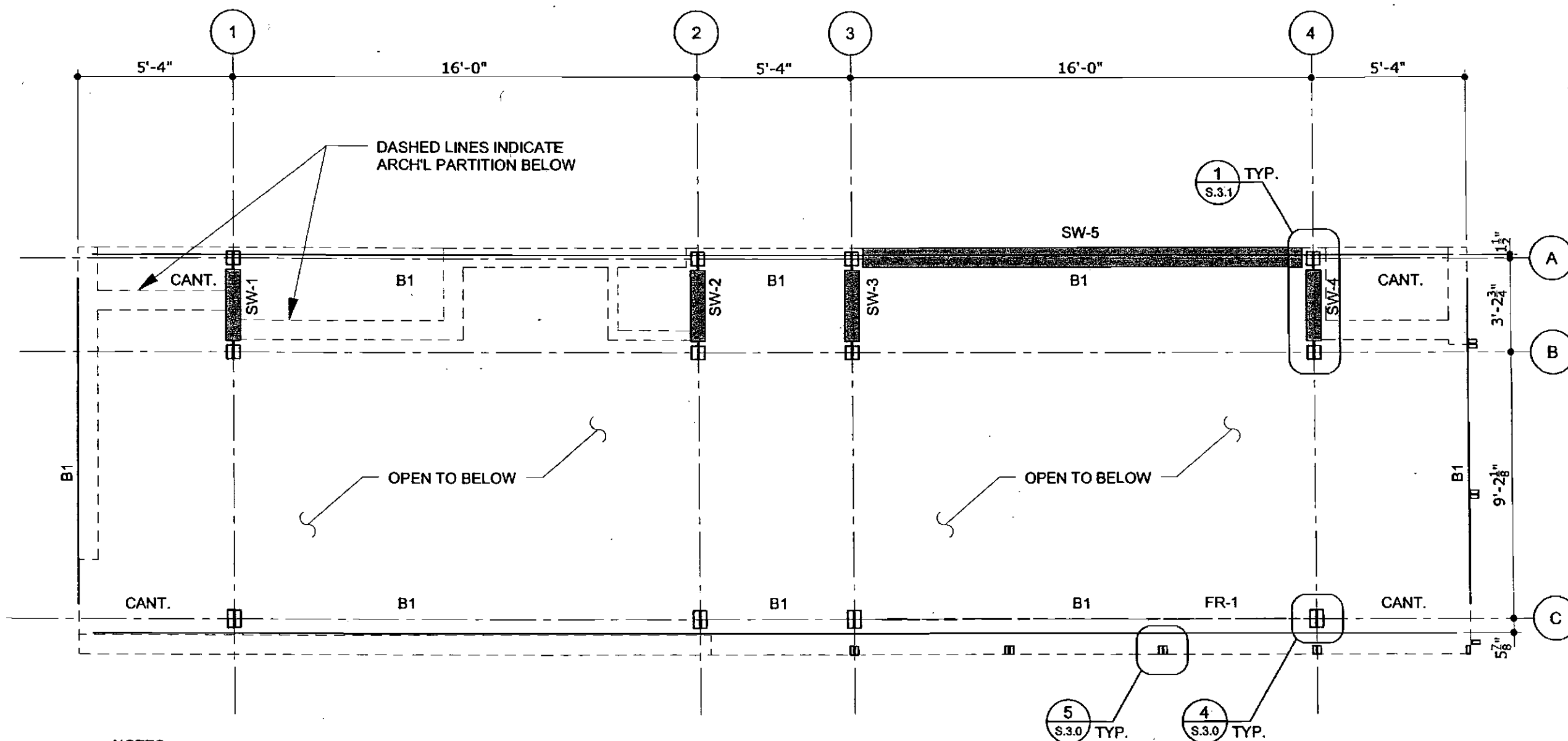


scale: 3/16"=1'-0"

FLOOR WOOD FRAMING

1 WOOD FRAMING PLAN
S.1.1a





NOTES

1. $+X'-X''$ INDICATES TOP OF BEAM ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF $+0'-0''$. TOP OF BEAM ELEVATION AT CLERESTORY IS $8'-1 \frac{1}{2}''$ U.N.O.
2. "SW-1" INDICATES STRUCTURAL WOOD PANEL SHEARWALL CONSISTING OF TWO LAYERS OF $\frac{3}{4}''$ APA RATED PLYWOOD SHEATHING, 32/16 SPAN RATING, EXPOSURE 1. SEE DETAILS ON SHEET S.2.1 FOR FASTENING SCHEDULE.
3. "FR-1" INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATIONS ON SHEET S.2.0.
4. "B1" INDICATES COMPOSITE WOOD/ STEEL BEAM. SEE SHEET S.2.1 FOR COMPOSITE BEAM SCHEDULE.



date	
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consultants:

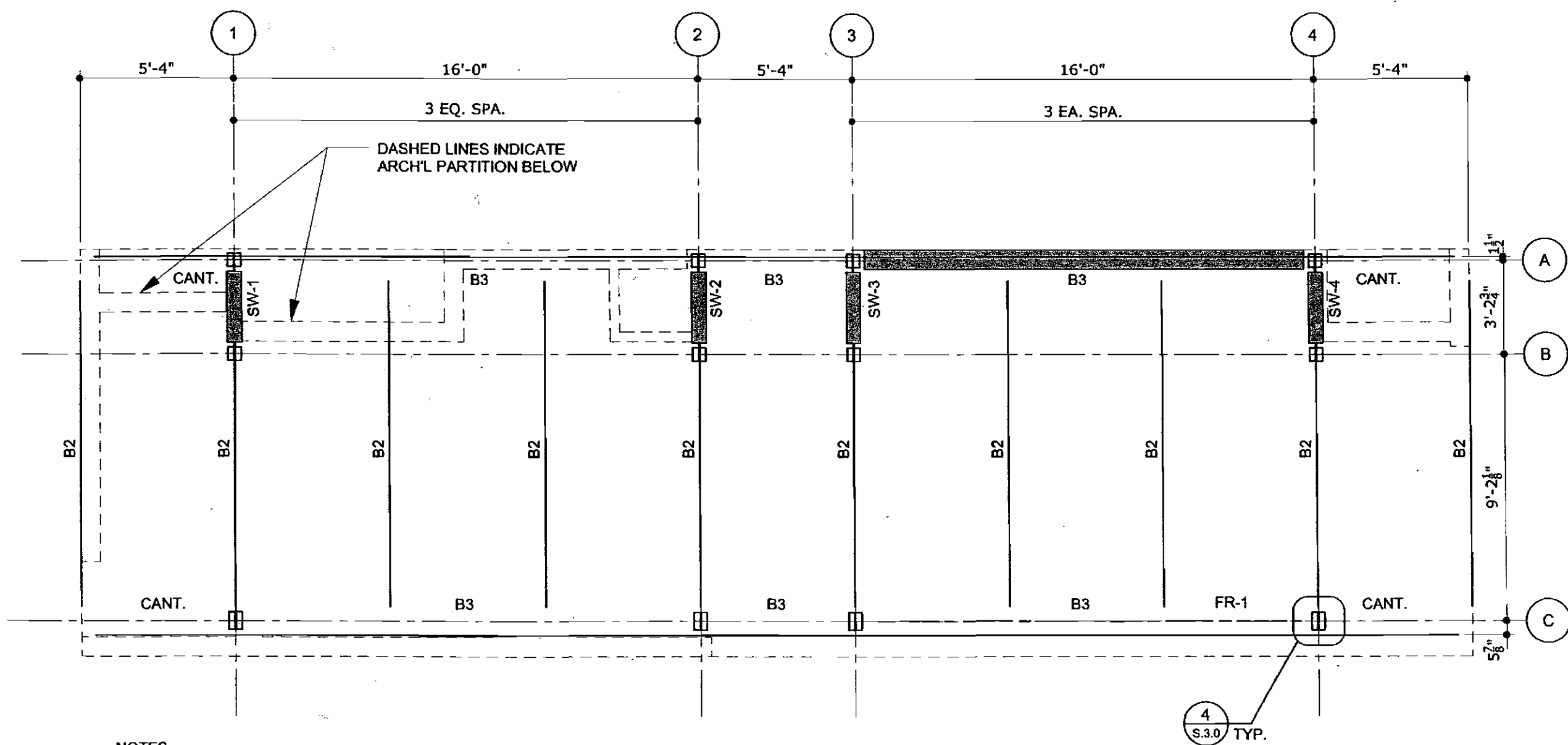
prepared by:
Jamie O'Kelley
 date drawn:
 12.04.06



scale: $\frac{1}{4}'' = 1'-0''$

S.1.2

CLERESTORY FRAMING PLAN



NOTES

1. $+X'-X"$ INDICATES TOP OF STEEL ELEVATION WITH RESPECT TO FINISHED FLOOR ELEVATION OF $+0'-0"$. TOP OF STEEL ELEVATION AT UPPER ROOF IS $10'-4"$ U.N.O.
2. "FR-1" INDICATES STRUCTURAL BRACED FRAME. SEE FRAME ELEVATIONS ON SHEET S.2.0.
3. "B2" INDICATES COMPOSITE WOOD/ STEEL BEAM. SEE SHEET S.2.1 FOR COMPOSITE BEAM SCHEDULE.

1 ROOF FRAMING PLAN
S.1.3



date	
description	
revision	

consultants:

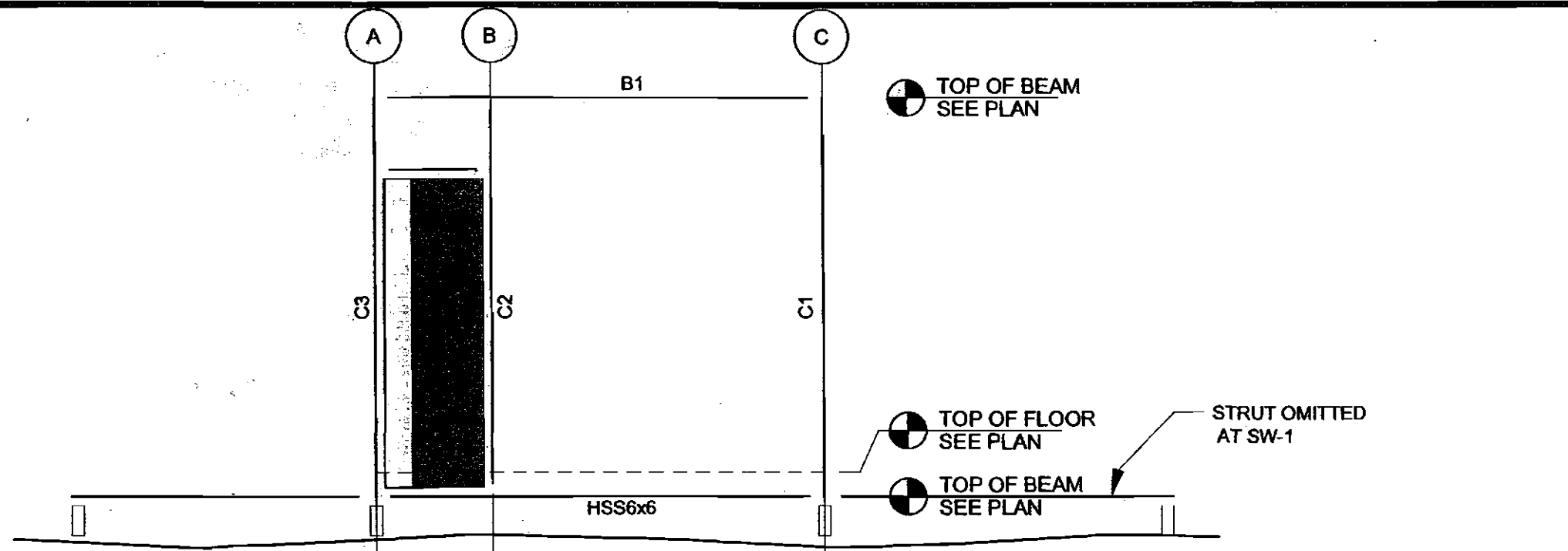
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12.04.06



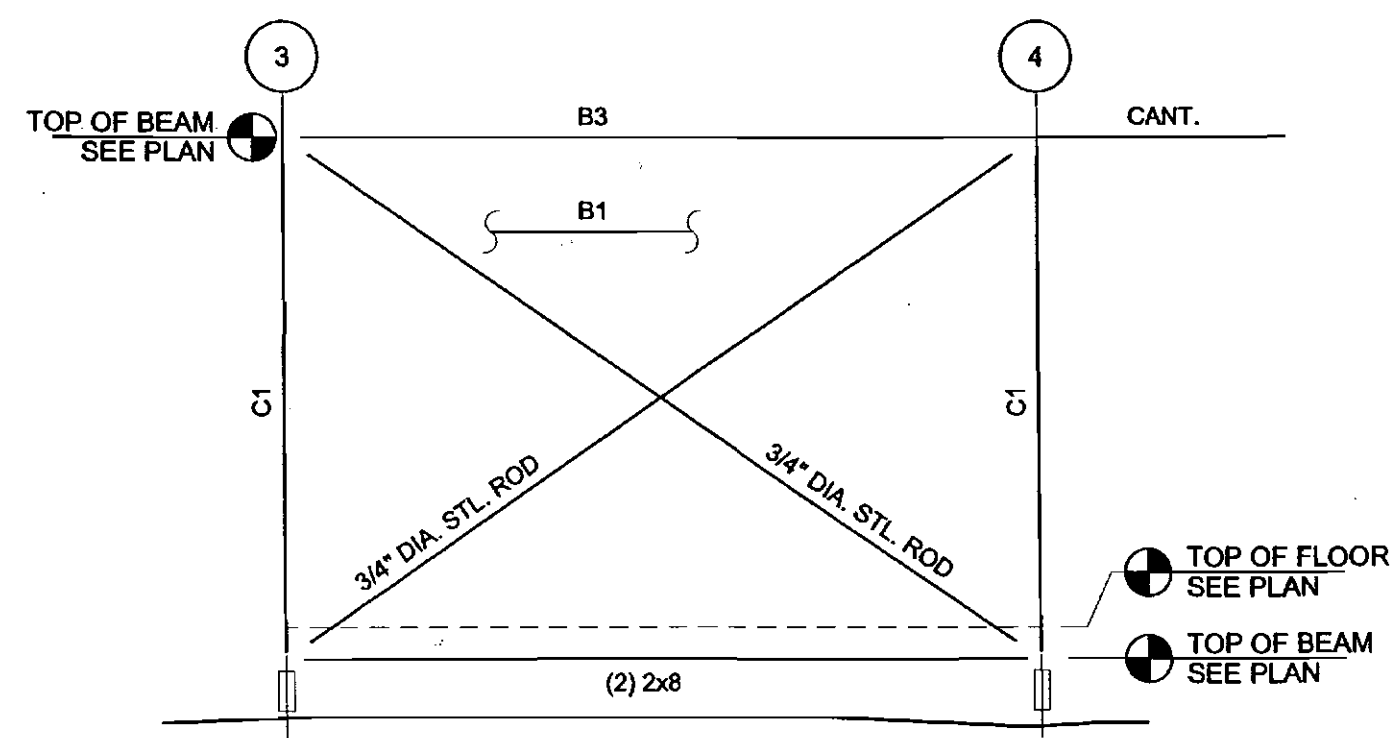
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S.1.3

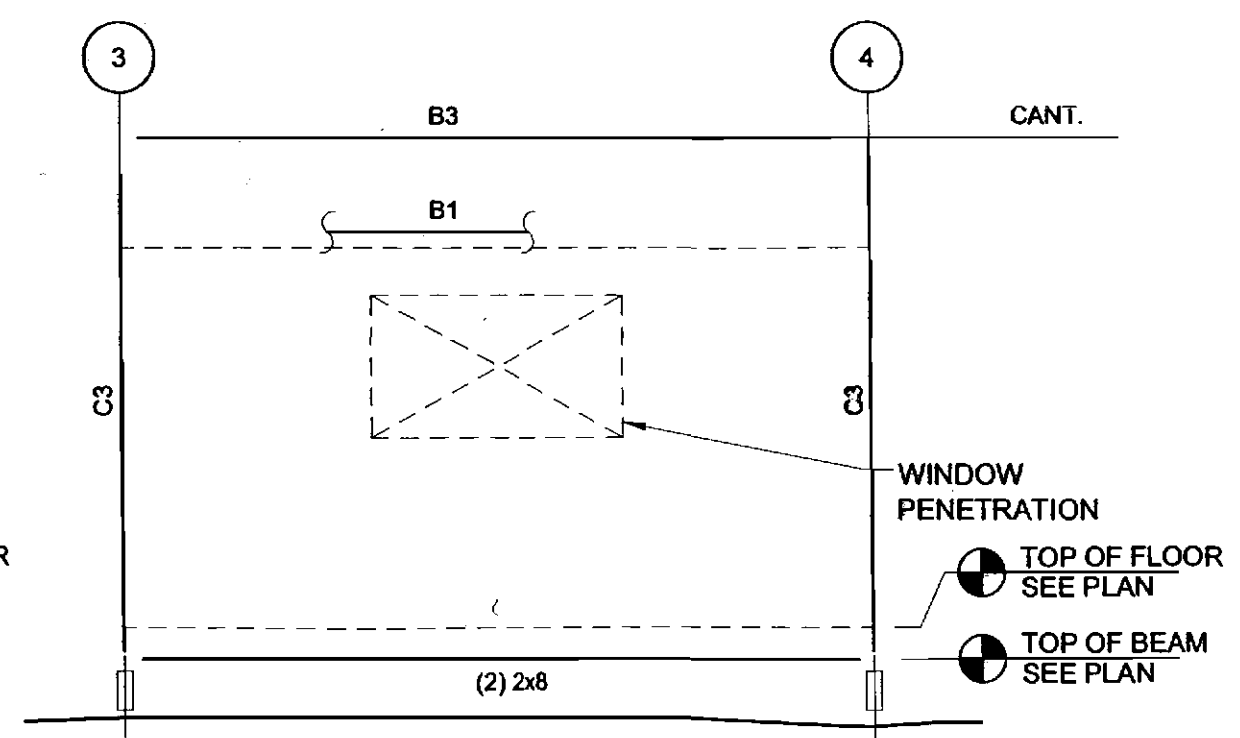
ROOF FRAMING PLAN



2 STRUCTURAL FRAME ELEVATION
S.2.0 AT SHEARWALLS SW-1, SW-2, SW-3, SW-4



3 STRUCTURAL FRAME ELEVATION
S.2.0 AT FRAME FR-2



1 STRUCTURAL FRAME ELEVATION
S.2.0 AT SHEARWALL SW-5

date

description

revision

consultants:

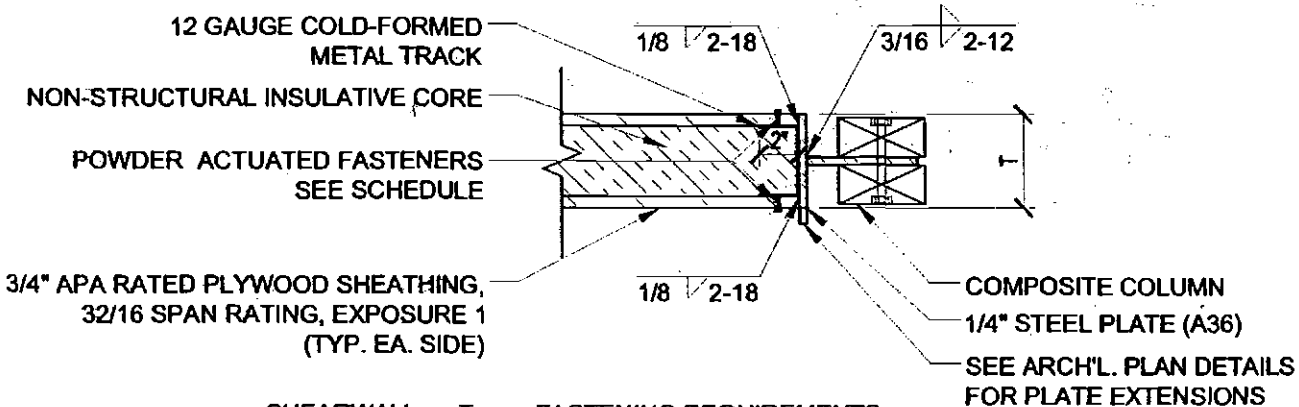
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Jamie O'Kelley

date drawn:
12.04.06

scale: as noted

S.2.0

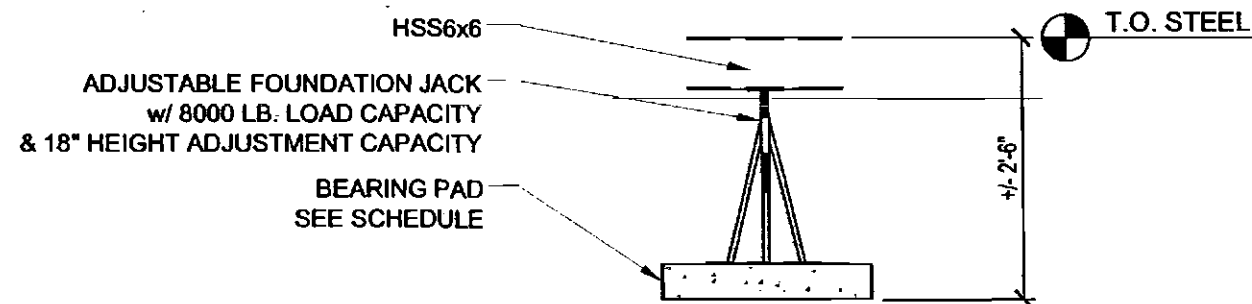
STRUCTURAL FRAME ELEVATIONS



SHEARWALL	T	FASTENING REQUIREMENTS
SW-1, SW-2 SW-3, SW-4	6"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES
SW-5	8"	0.145" DIA. POWDER ACTUATED FASTENERS @ 6" o.c. BOTH SIDES AND AT ALL EDGES

4 SHEARWALL SCHEDULE

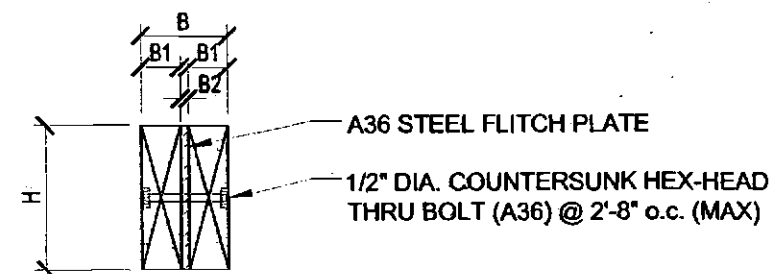
S.2.1



FOOTING	SIZE	DESCRIPTION
F1	4" X 2'-0" X 2'-0"	2500PSI CONCRETE
F2	1'-0" X 2'-0" X 2'-0"	2500PSI CONCRETE WITH 3-#4x1'-8" HORIZ. REINF. EA. WAY

3 FOOTING SCHEDULE

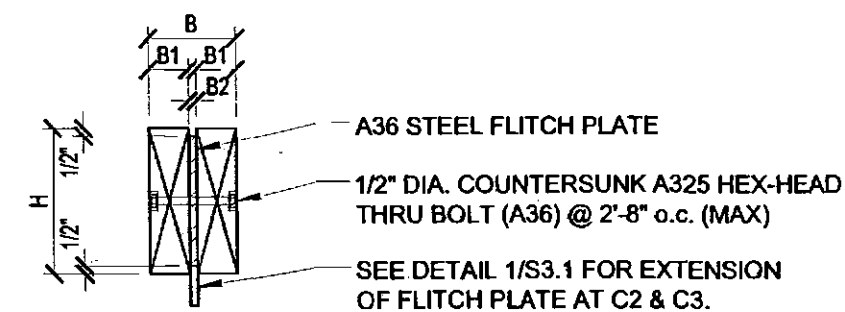
S.2.1



BEAM	B	B1	B2	H	WOOD SPECIES & GRADE
B1	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B2	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)
B3	5-1/2"	2-1/2"	1/2"	9-1/4"	FIR-LARCH (SELECT STRUCTURAL)

2 COMPOSITE BEAM SCHEDULE

S.2.1



COLUMN	B	B1	B2	H	WOOD SPECIES & GRADE
C1	5-1/2"	2-1/2"	1/2"	7-1/4"	FIR-LARCH (SELECT STRUCTURAL)
C2	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)
C3	5-1/2"	2-1/2"	1/2"	5-1/2"	FIR-LARCH (SELECT STRUCTURAL)

1 COMPOSITE COLUMN SCHEDULE

S.2.1

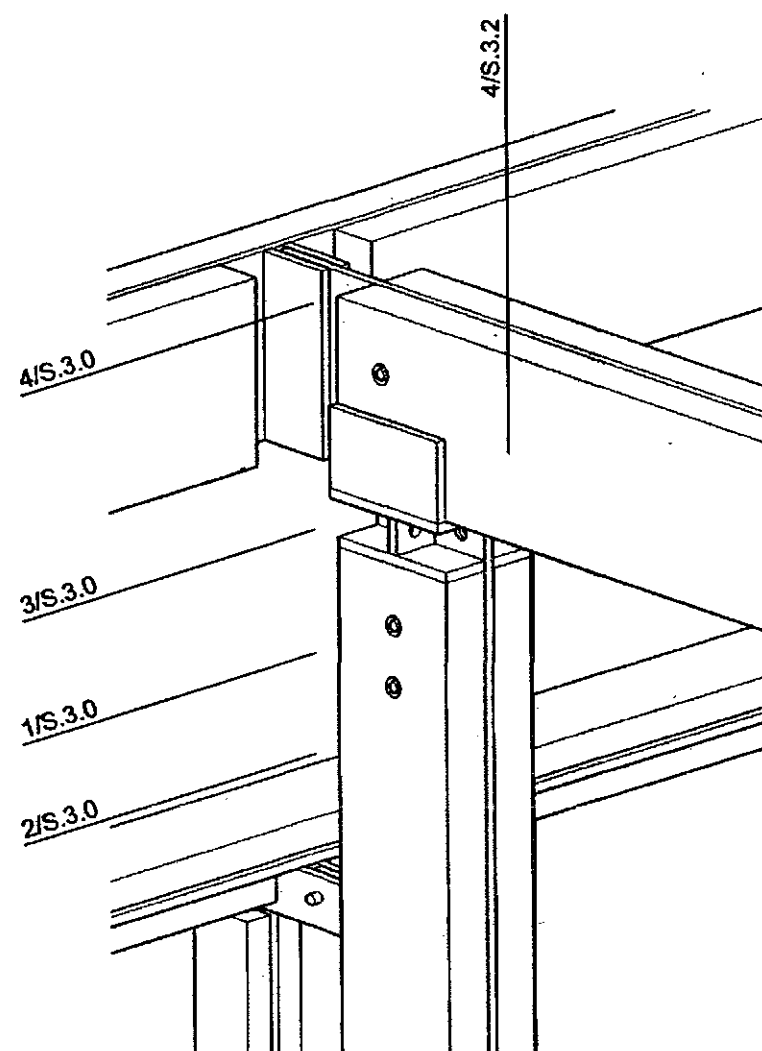
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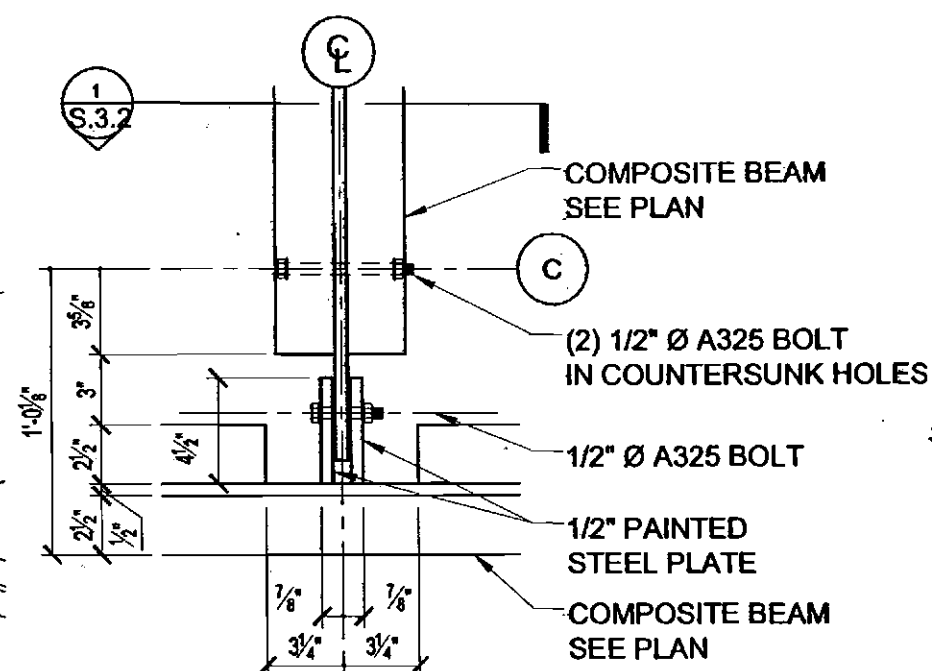
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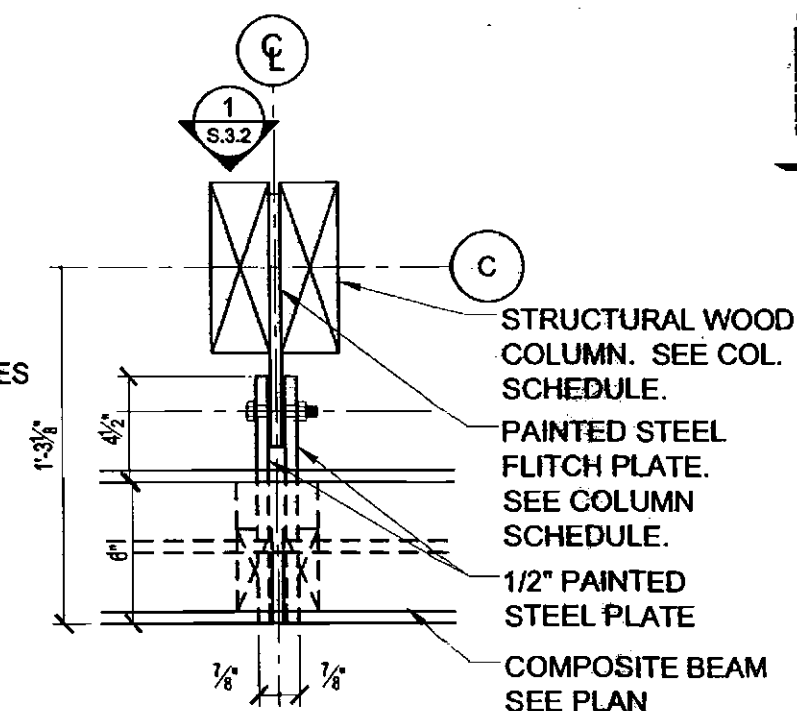
S.2.1



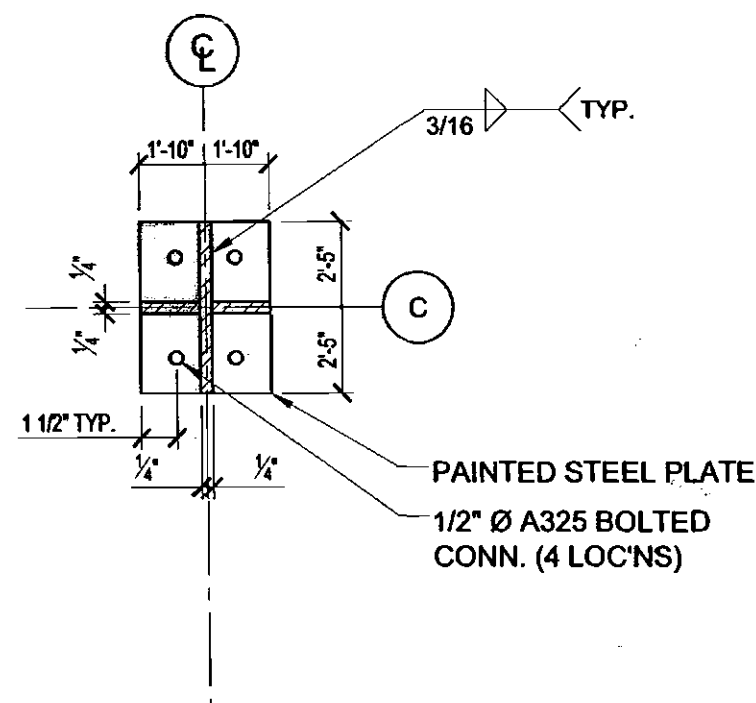
5 AXONOMETRIC
S.3.0 TYP. POST AT SOUTH WALL



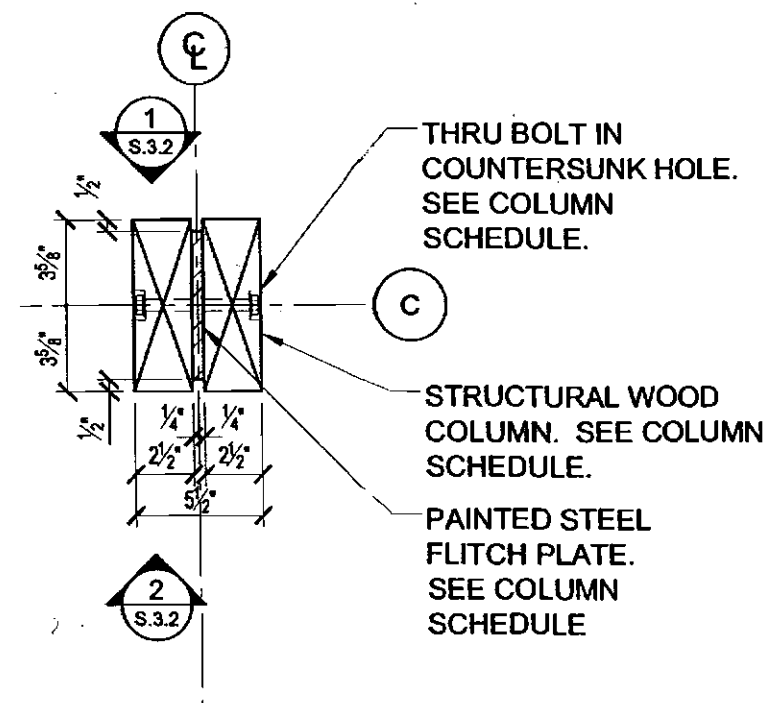
4 PLAN DETAIL @ ROOF BEAM
S.3.0 TYP. POST AT SOUTH FACADE



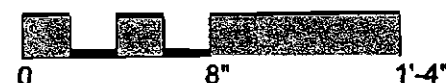
2 PLAN DETAIL @ CLERESTORY
S.3.0 TYP. POST AT SOUTH FACADE



3 PLAN DETAIL @ STEEL CONNECTION
S.3.0 TYP. POST AT SOUTH FACADE



1 PLAN DETAIL @ MID HEIGHT
S.3.0 TYP. POST AT SOUTH FACADE



date	
revision	
description	

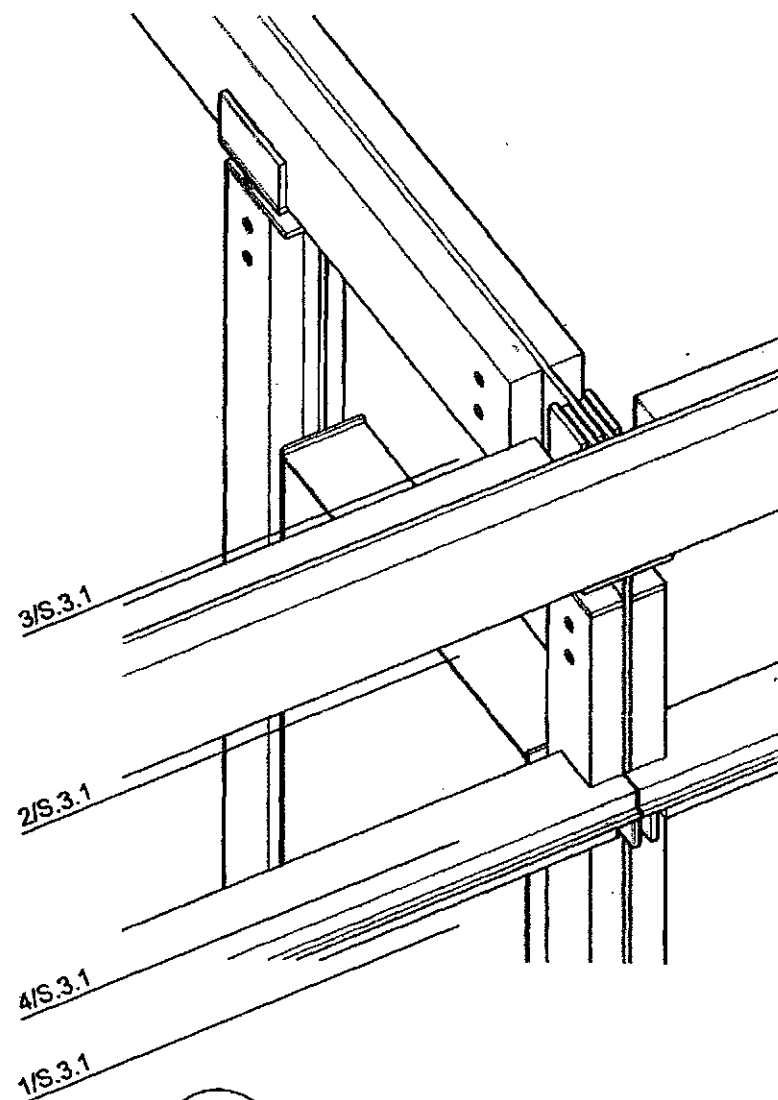
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prepared by:
Jamie O'Kelley
date drawn:
12.04.06

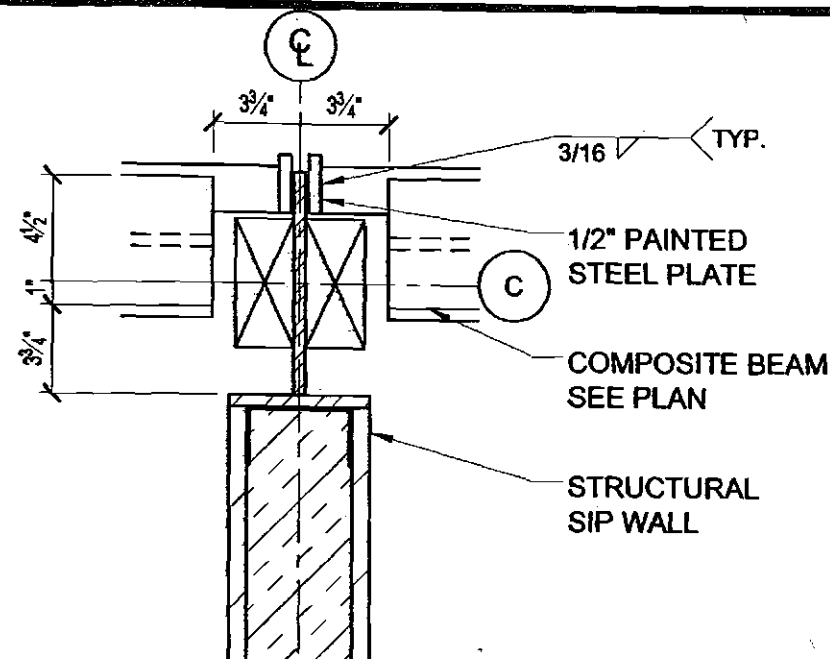
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S.3.0

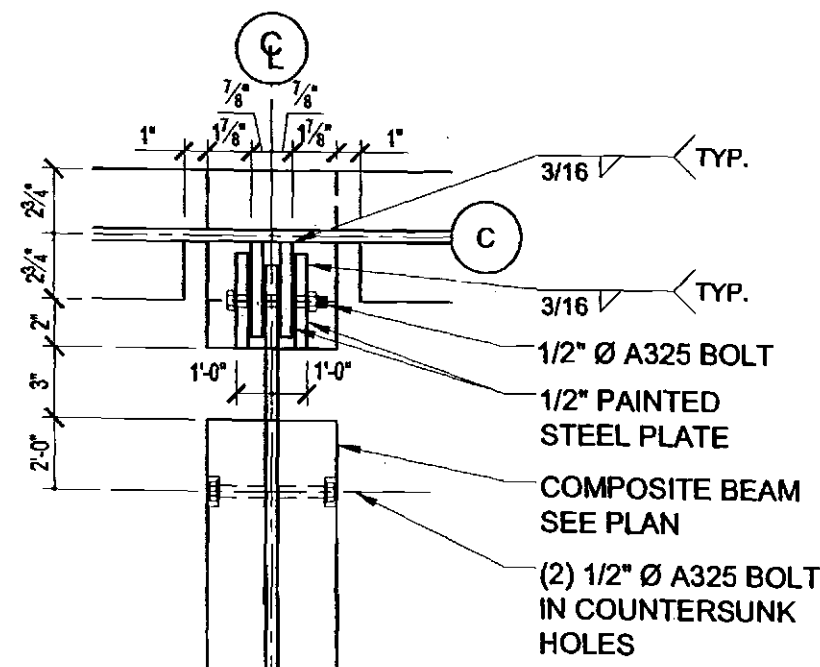
STRUCTURAL ROOF DETAILS



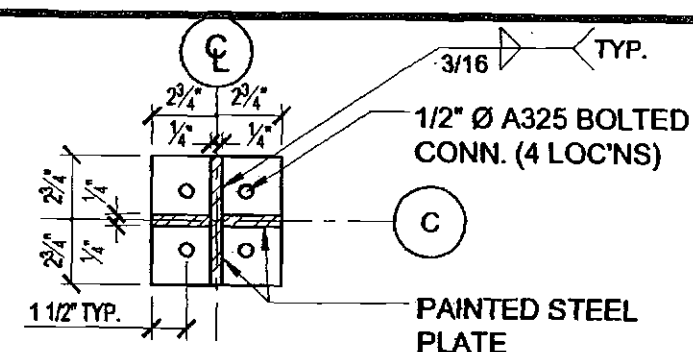
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AXONOMETRIC
S.3.1 TYP. POST AT NORTH WALL



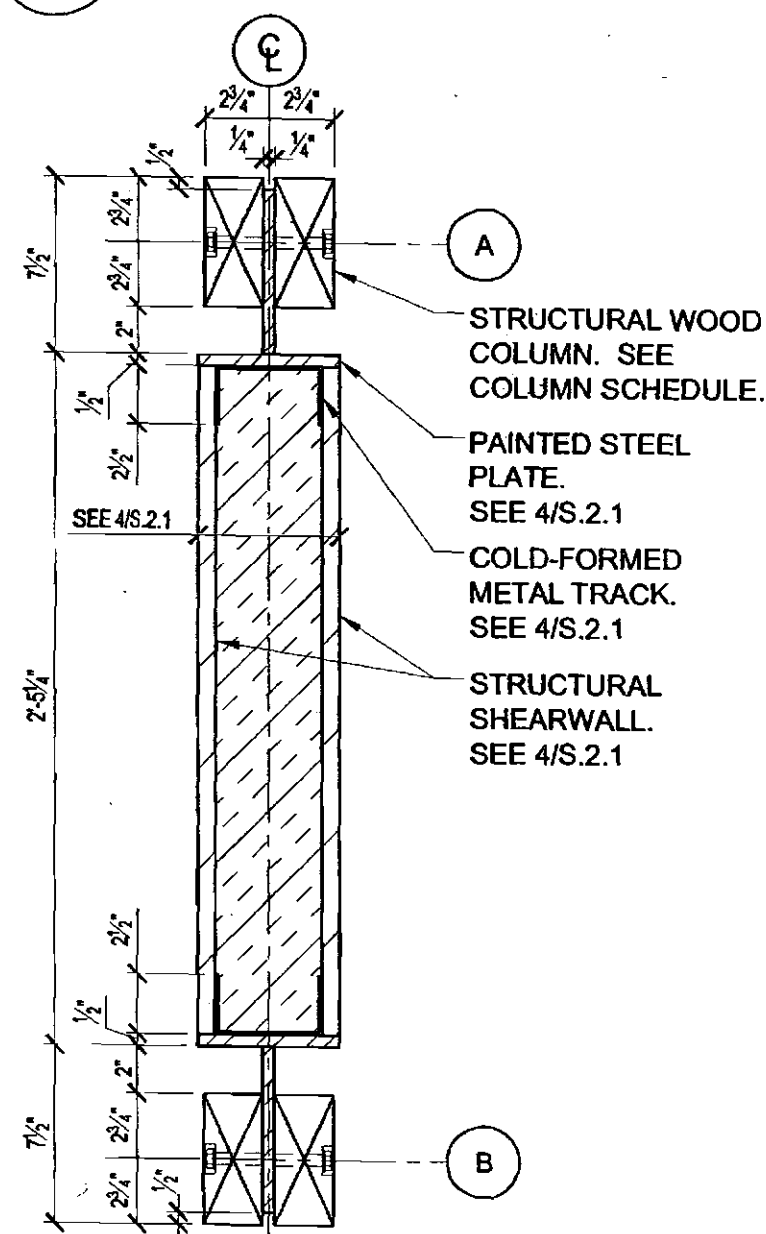
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PLAN DETAIL @ CLERESTORY
S.3.1 TYP. POST @ NORTH WALL



3
PLAN DETAIL @ ROOF
S.3.1 TYP. POST @ NORTH WALL



2
PLAN DETAIL @ STEEL CONN.
S.3.1 TYP. POST @ NORTH WALL



1
PLAN DETAIL @ SHEARWALL
S.3.1 TYP. TRANSVERSE SHEAR WALL

date	
description	
revision	

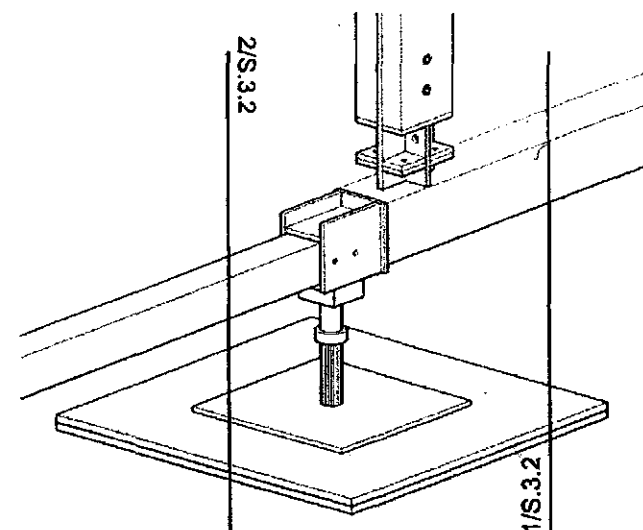
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prepared by:
Jamie O'Kelley
date drawn:
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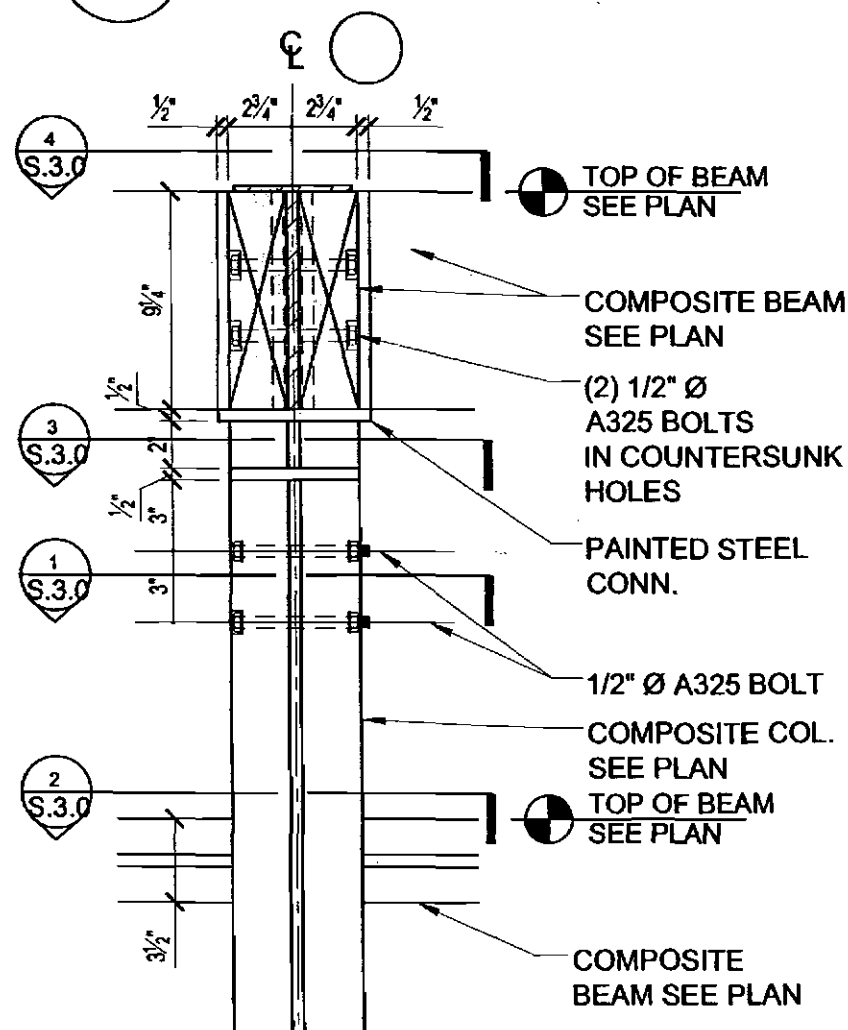
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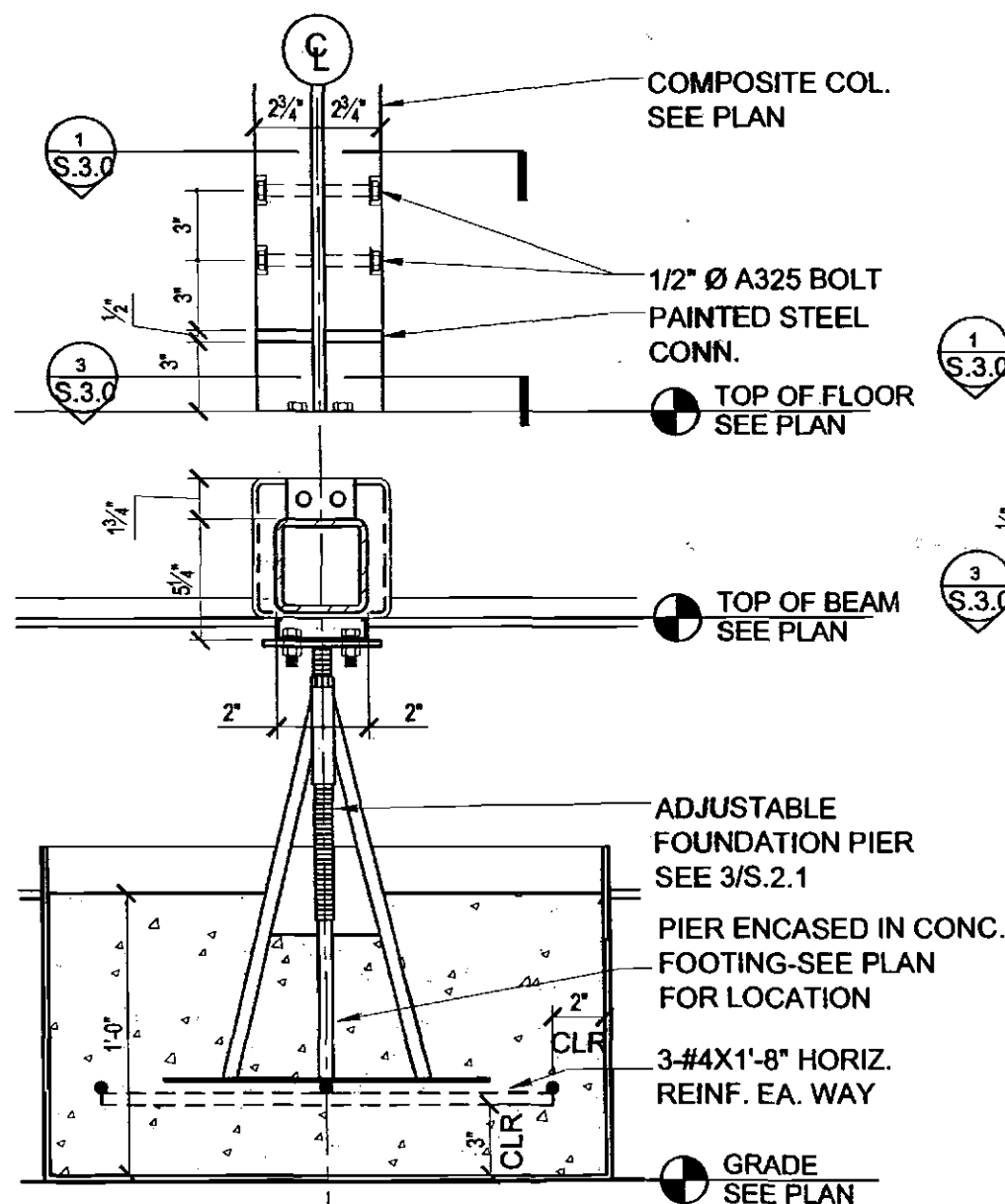
STRUCTURAL DETAILS



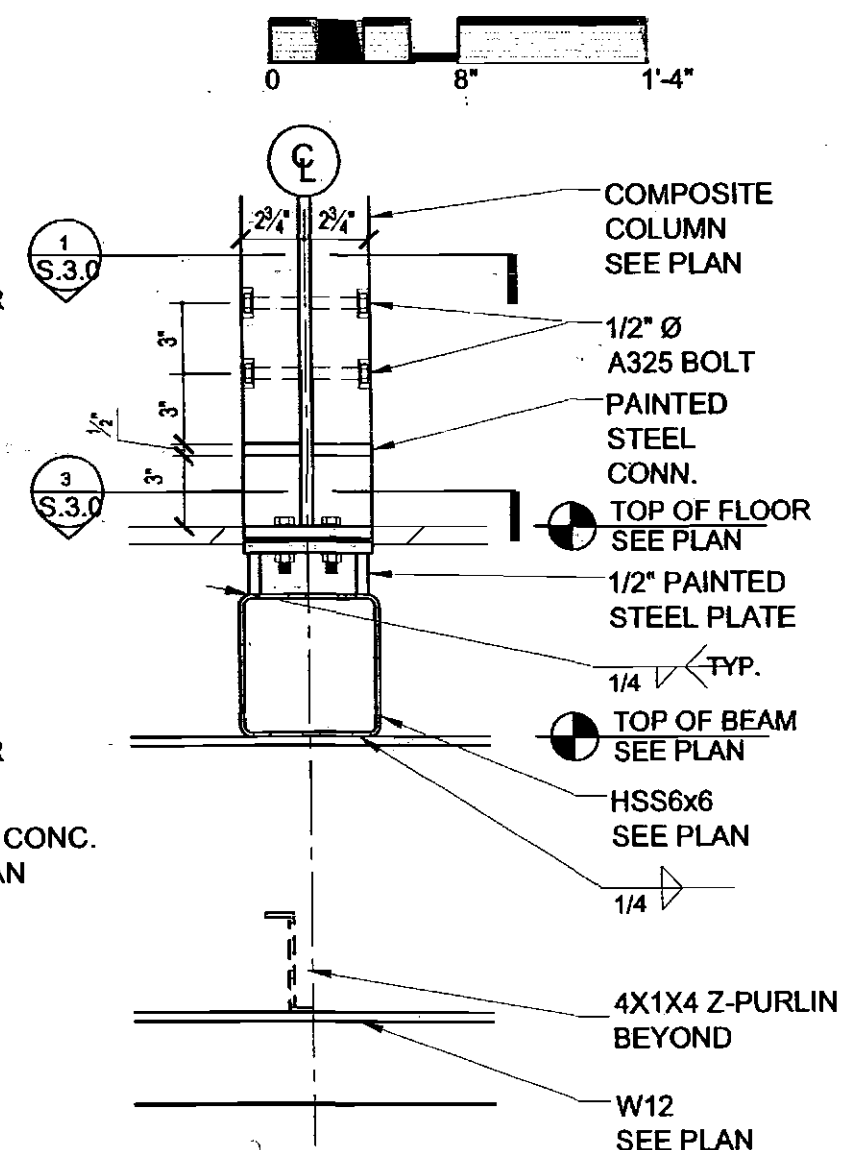
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S.3.2 **AXONOMETRIC**
TYP. POST CONN. AT BASE



4
S.3.2 **ELEVATION DETAIL**
TYP. POST AT SOUTH FACADE



2
S.3.2 **ELEVATION DETAIL**
FOUNDATION PIER DETAIL



1
S.3.2 **ELEVATION DETAIL**
TYP. POST CONN. TO FLOOR

date	
description	
revision	

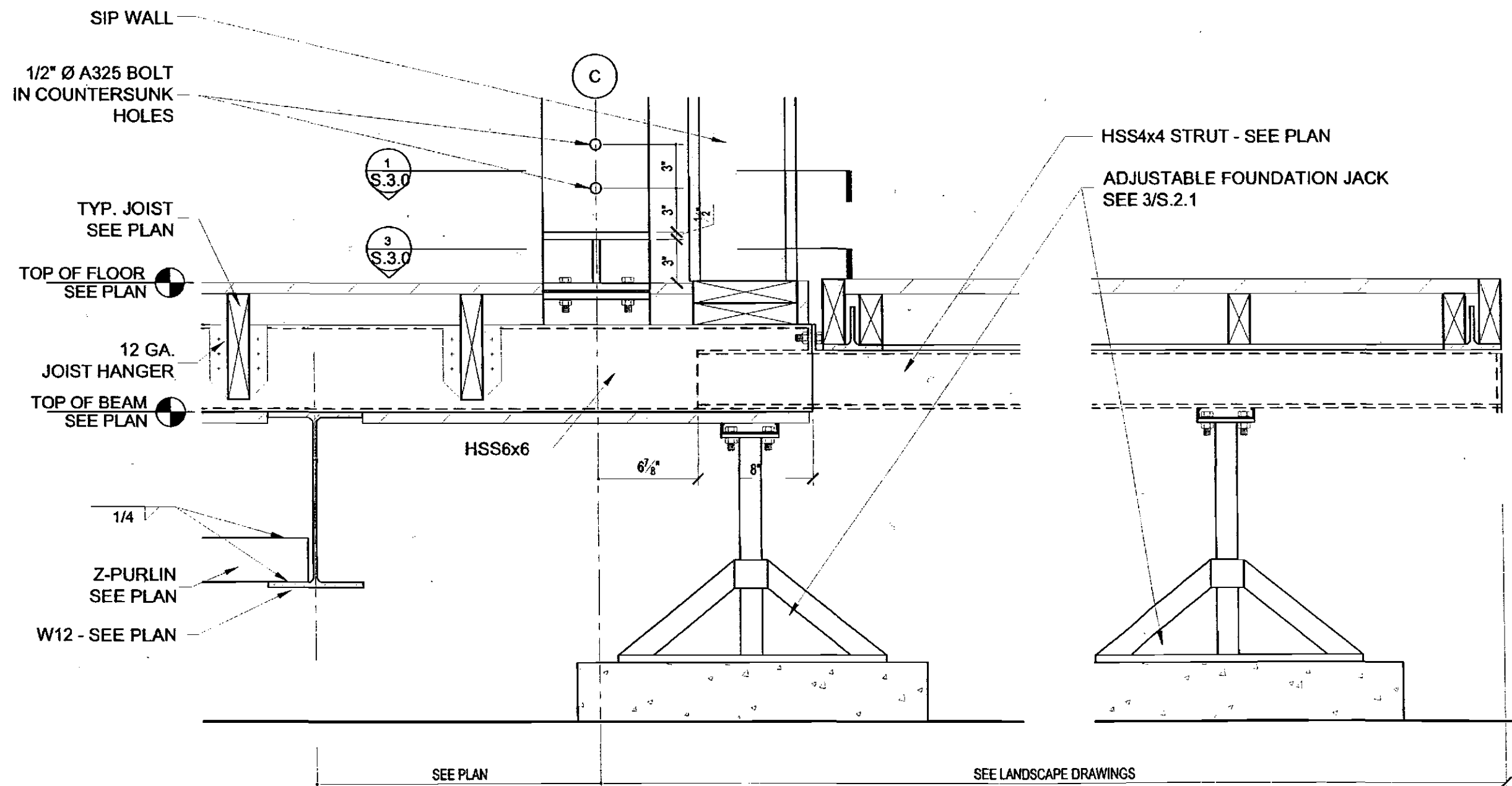
consultants:

prepared by:
Jamie O'Kelley
C.VAN KLEY
date drawn:
12.04.06
3.06.07

scale: 1.5"=1'-0"

S.3.2

STRUCTURAL DETAILS



2 FLOOR SECTION
S.3.3 AT SOUTH WALL

1 FLOOR SECTION
S.3.3 AT SOUTH DECK



date	
description	
revision	

consultants:

prepared by:
Jamie O'Kelley
C.VAN KLEY
date drawn:
12.04.06
3.06.07

scale: 1.5"=1'-0"

S.3.3

STRUCTURAL FLOOR DETAILS

date	
description	
revision	

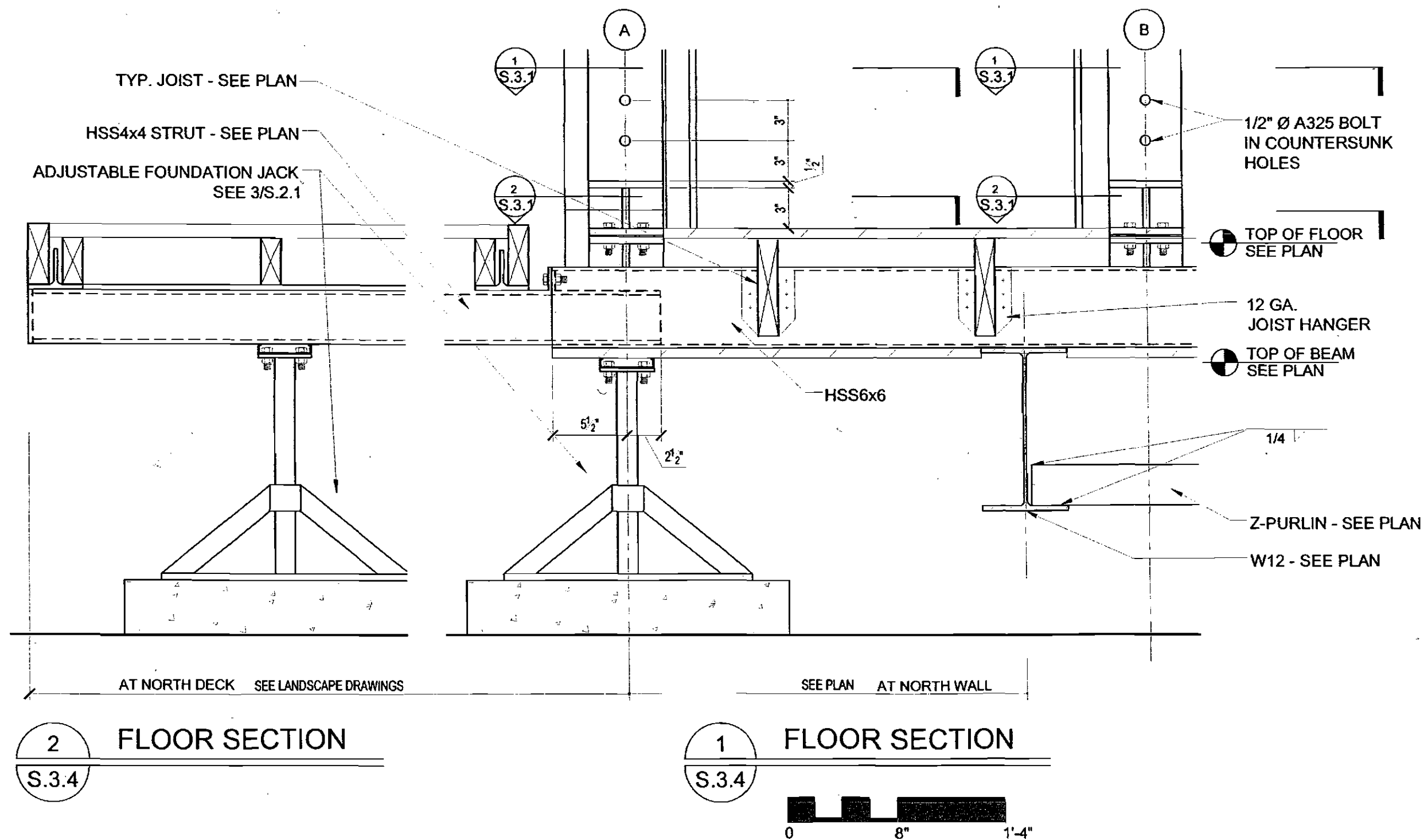
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 C.VAN KLEY
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 3.06.07

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S.3.4

STRUCTURAL FLOOR DETAILS



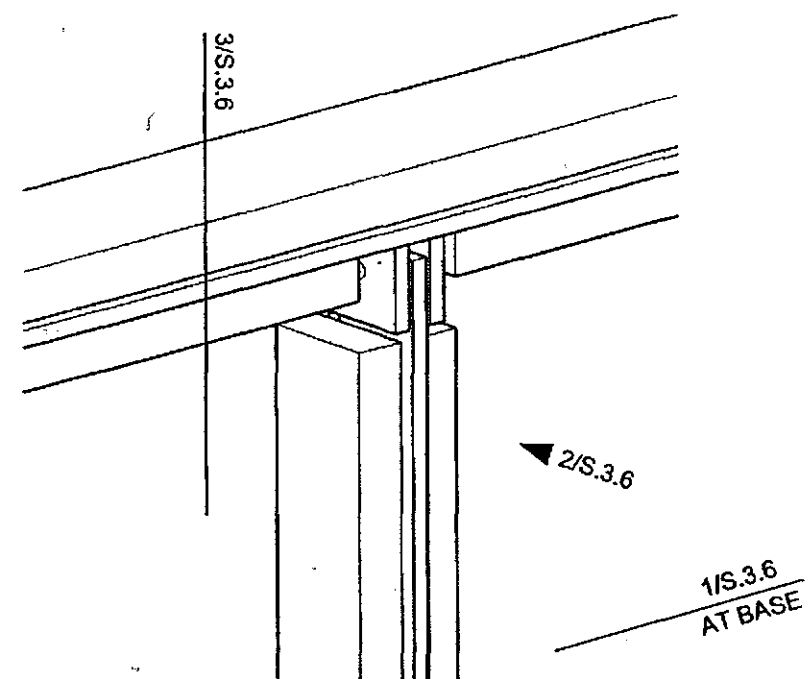
consultants

prepared by:
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date drawn:
12.04.06

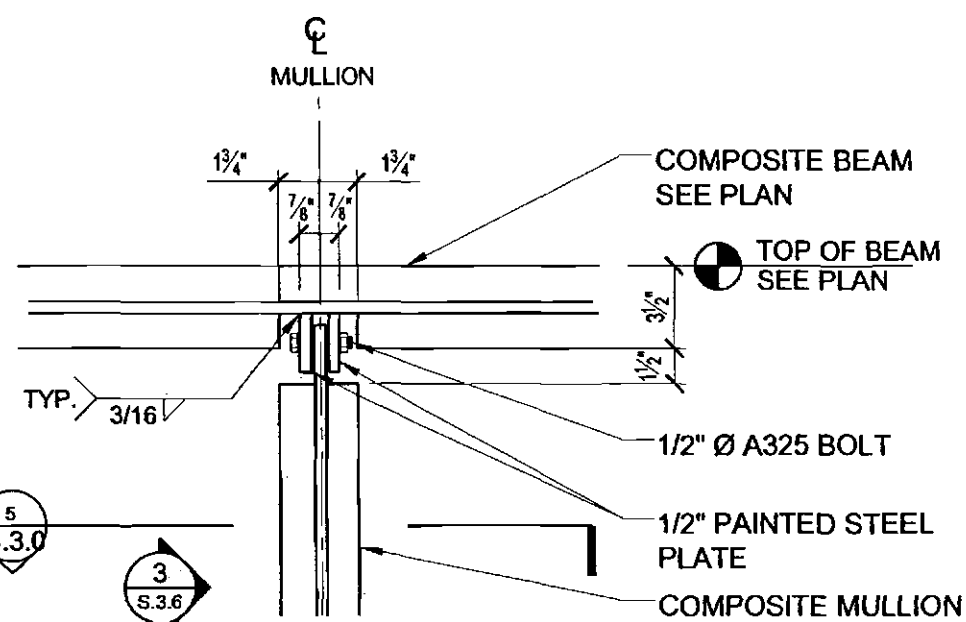
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S.3.5

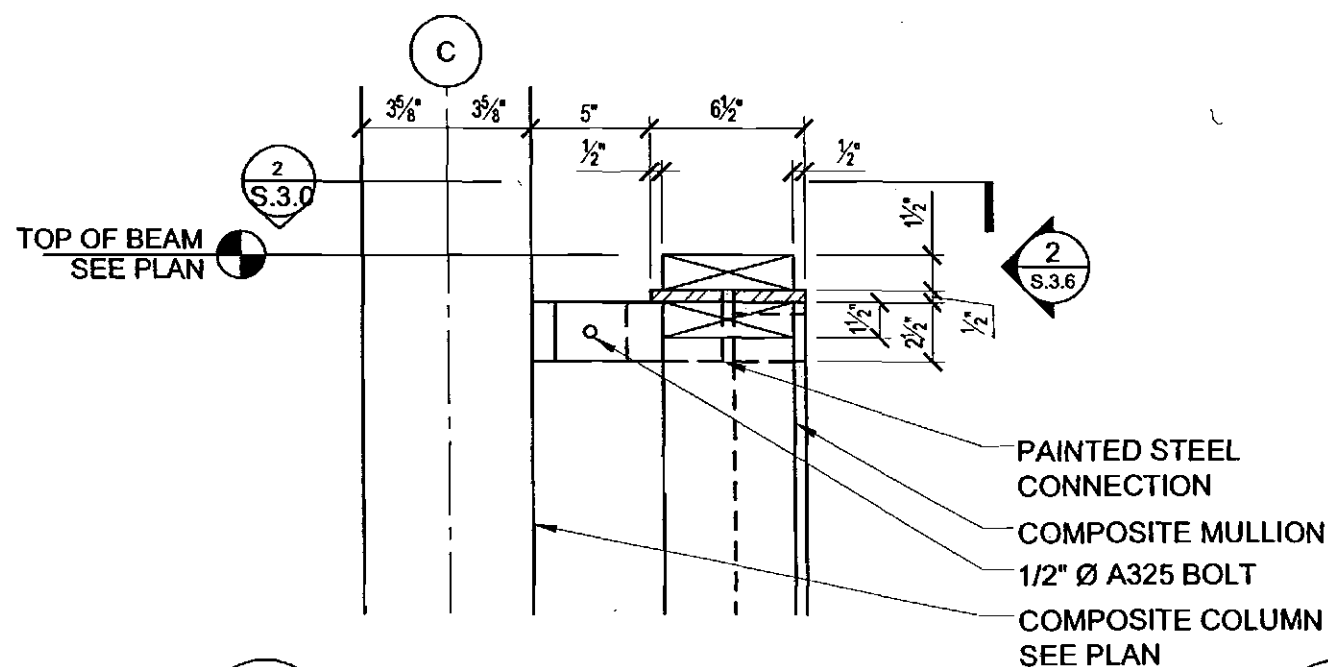
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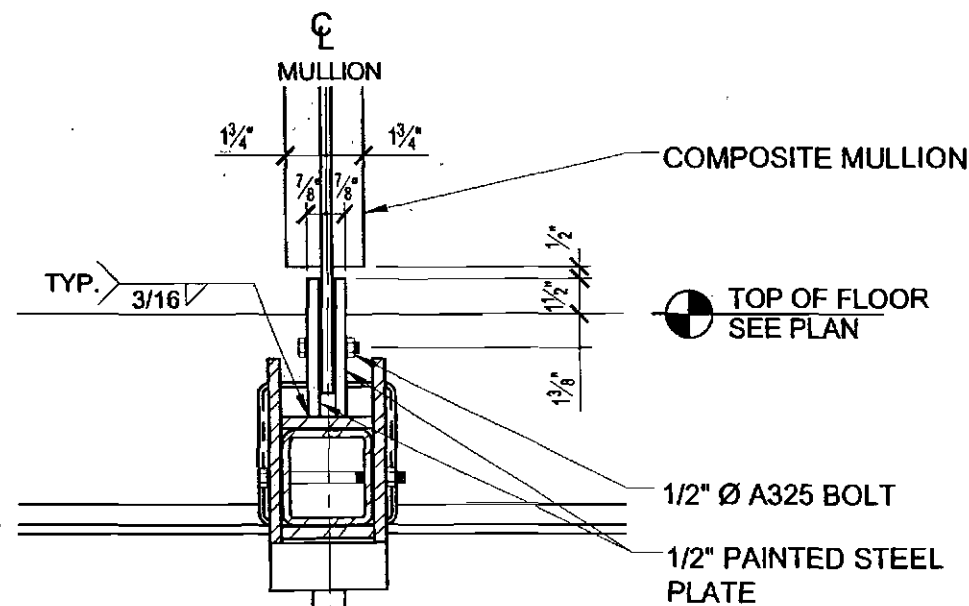
4 AXONOMETRIC
S.3.6 AT TYP. MULLION



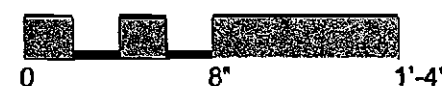
2 DETAIL
S.3.6 ELEVATION DETAIL AT TYP. MULLION



3 DETAIL
S.3.6 SECTION DETAIL AT TYP. MULLION

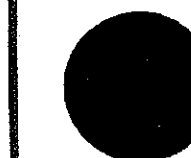


1 DETAIL
S.3.6 ELEVATION DETAIL AT TYP. MULLION



date	
description	
revision	

consultants:

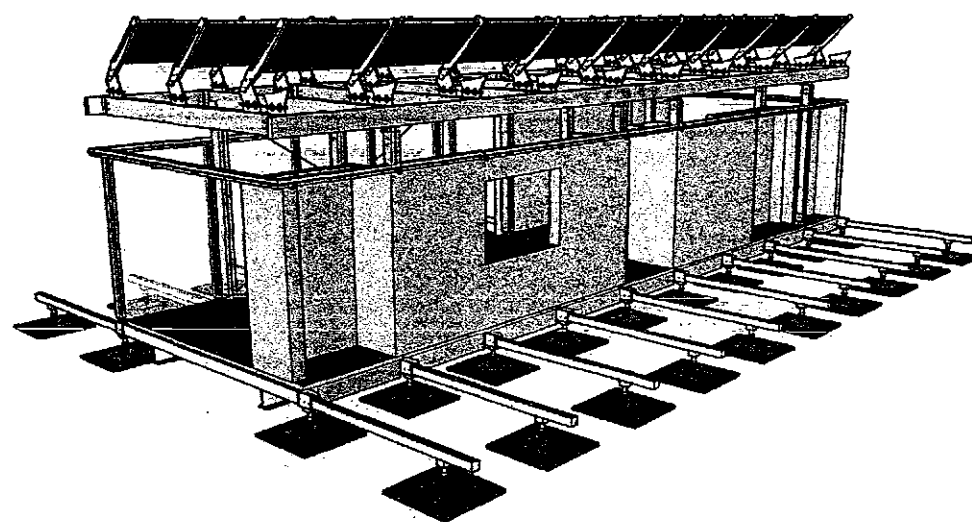


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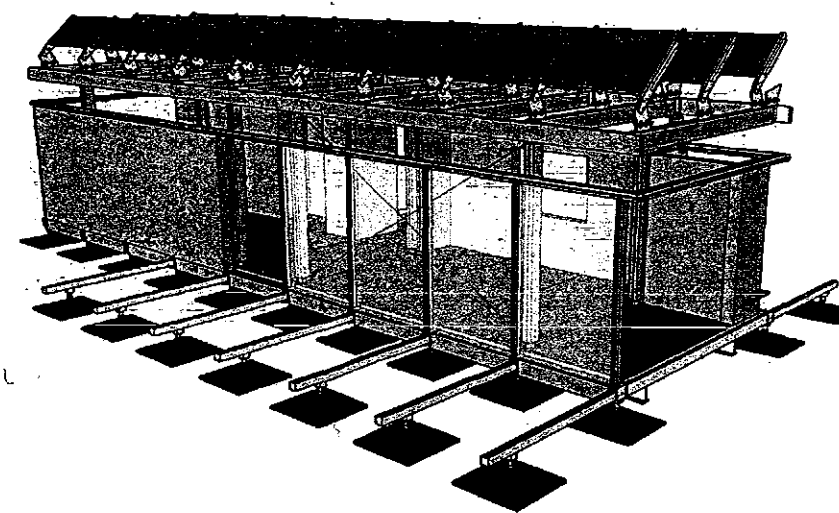
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S.3.6

STRUCTURAL DETAILS



2 SOUTHEAST PERSPECTIVE
S.4.0



1 NORTHEAST PERSPECTIVE
S.4.0

date

description

revision

consultants:

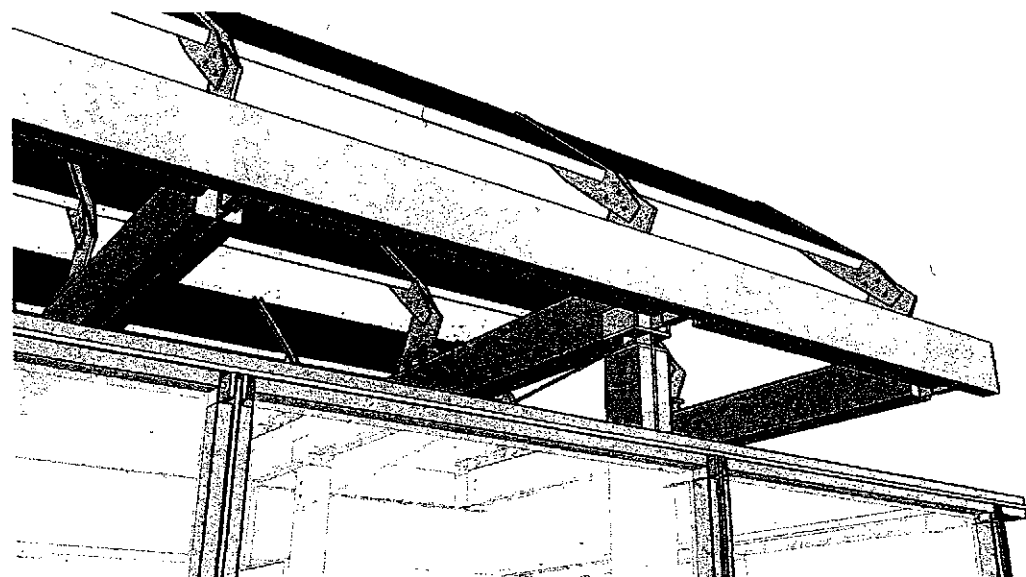


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date drawn:
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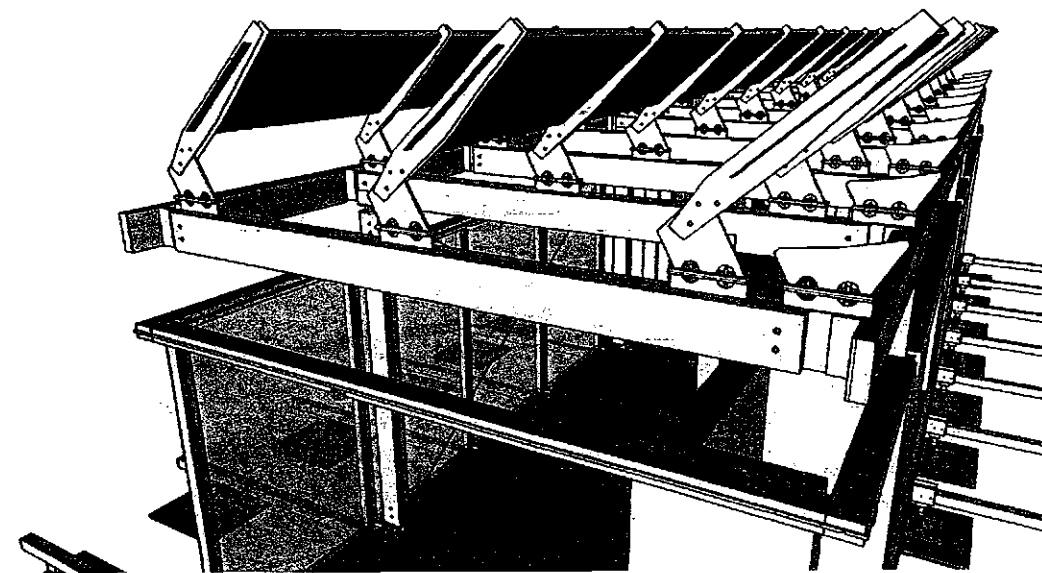
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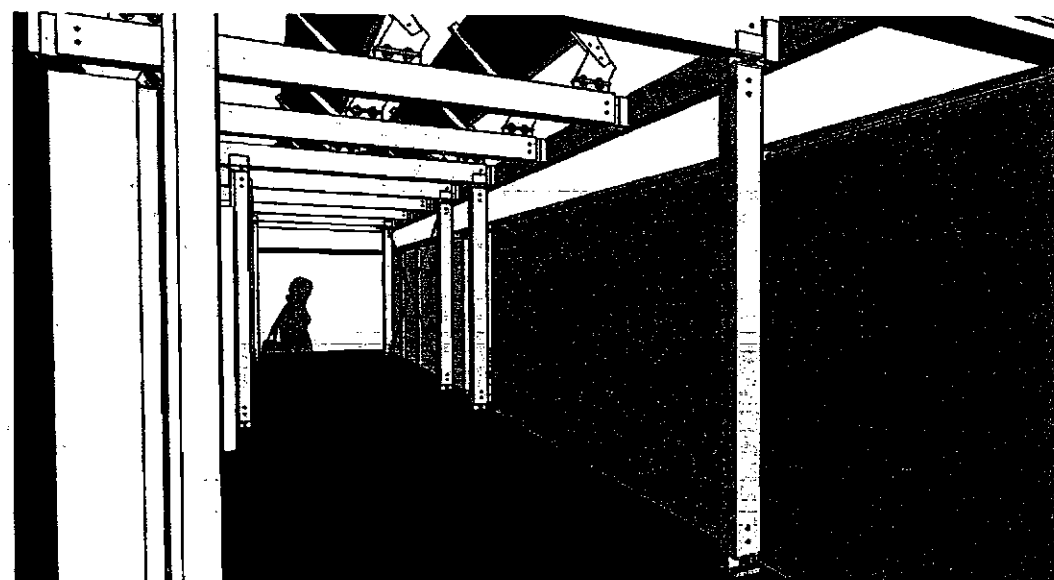
STRUCTURAL IMAGES



4 CLERESTORY DETAIL
S.4.1



3 CLERESTORY DETAIL
S.4.1



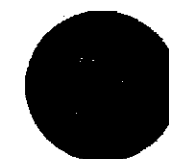
2 INTERIOR PERSPECTIVE
S.4.1



1 INTERIOR PERSPECTIVE
S.4.1

date	
description	
revision	

consultants:

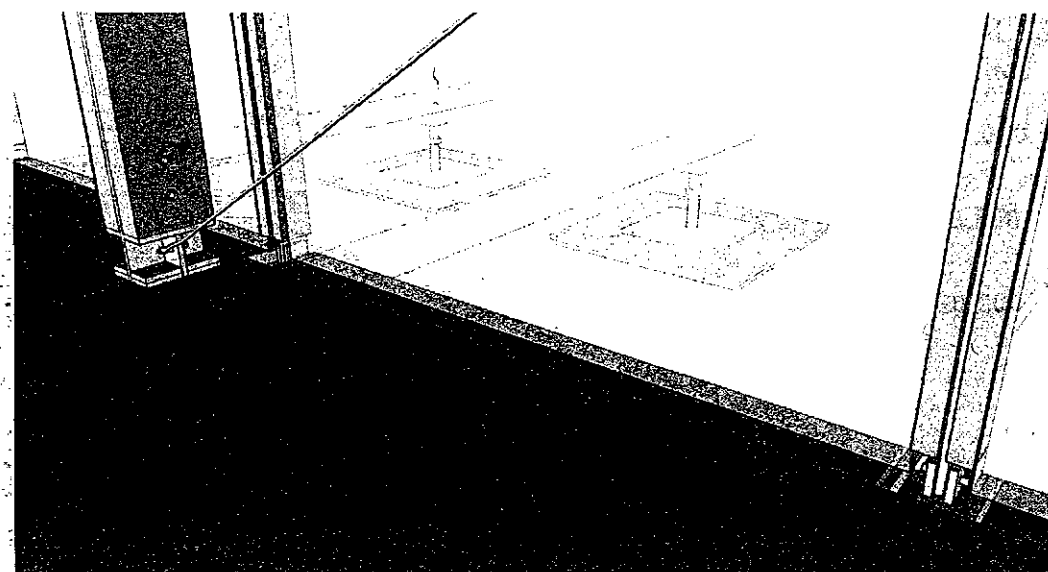


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C.VAN KLEY
date drawn:
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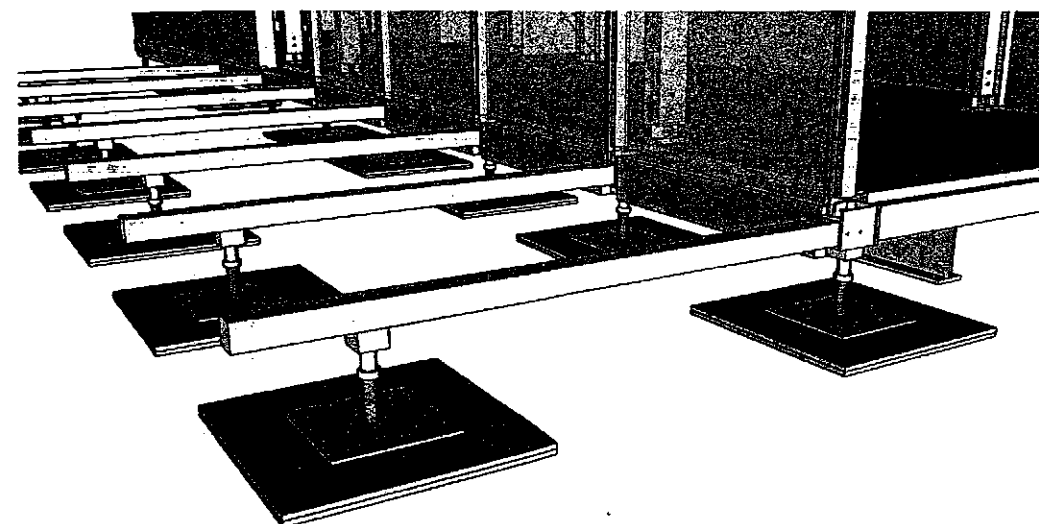
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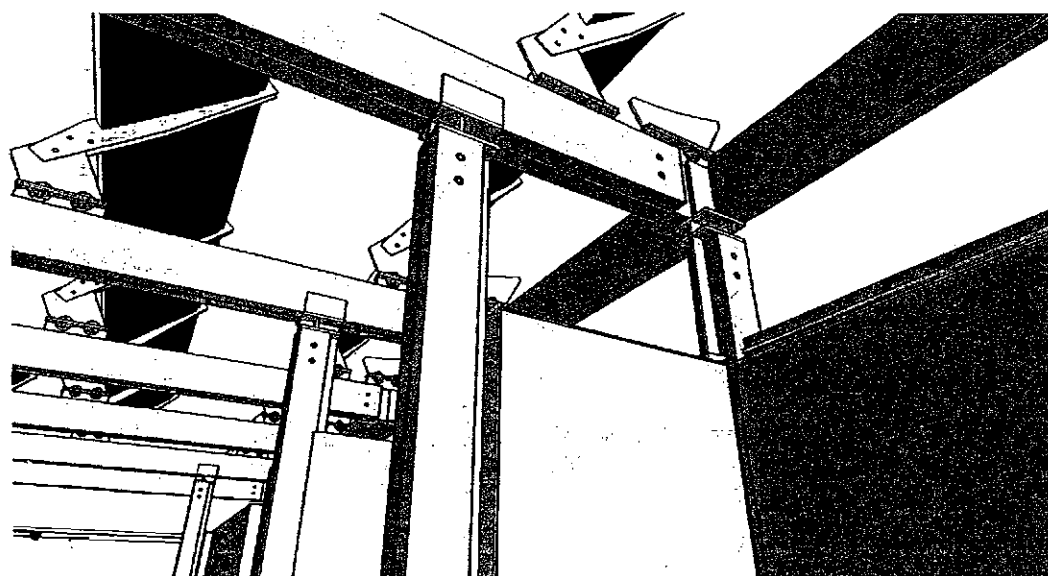
STRUCTURAL IMAGES



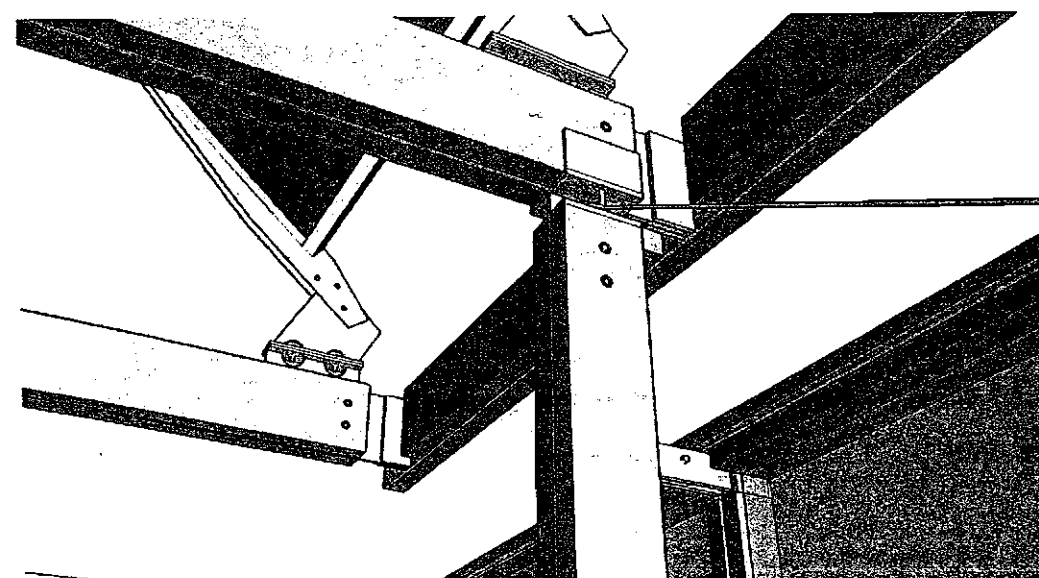
4 CONNECTION DETAIL
S.4.2



3 FOUNDATION DETAIL
S.4.2



2 CONNECTION DETAIL
S.4.2



1 CONNECTION DETAIL
S.4.2

date	
description	
revision	

consultants:



prepared by:
C.VAN KLEY
date drawn:
3.06.07

scale: NONE

S.4.2

STRUCTURAL IMAGES

	MANUFAC- TURER	MODEL	SOUND RATING (High) (dB)	AIRFLOW (H-L) (CFM)	PERFORMANCE				DIMENSIONS (inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
					TOTAL CAPACITY		EFFICIENCY		H	W	D			
					HEATING	COOLING	SEER	HSPF						
OUTDOOR CONDENSOR	DAIKIN	RXYMQ36MVJU	58	3740	40,000	36,000	13	7.7	52-7/8	35-3/8	13-3/4	310	208	3050-3270
INDOOR FAN COIL - BEDROOM	DAIKIN	FX-A-Q-12-M-VJ-U	37	300/180	13,500	12,000			11-3/8	31-1/4	9	25	208	32-27
INDOOR FAN COIL - LIVING	DAIKIN	FX-A-Q-18-M-VJ-U	42	500/400	20,000	18,000			11-3/8	41-3/8	9	32	208	32-27

MANUFACTURER	MODEL	AIRFLOW (CFM)	DIMENSIONS (inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
			H	W	D			
ULTIMATEAIR	200DX	60-210	25	19	25	72	120	34-200

MANUFACTURER	MODEL	CAPACITY (Pints/day)	BLOWER CFM	DIMENSIONS (inches)			WEIGHT (lbs)	SUPPLY VOLTAGE (V)	POWER SUPPLY (W)
				H	W	D			
SANTA FE	4025699	90	240	19	14-1/2	33	71	115	750

VENTILATION RATES

KITCHEN 100 CFM INTERMITTENT/25 CFM CONTINUOUS
BATHROOM 50 CFM INTERMITTENT/ 20 CFM CONTINUOUS
HABITABLE ROOM 15 CFM PER PERSON

INDOOR TEMPERATURE REQUIREMENT 72° F - 76° F
INDOOR HUMIDITY REQUIREMENT 40% - 55%

date	
description	
revision	

consultants:

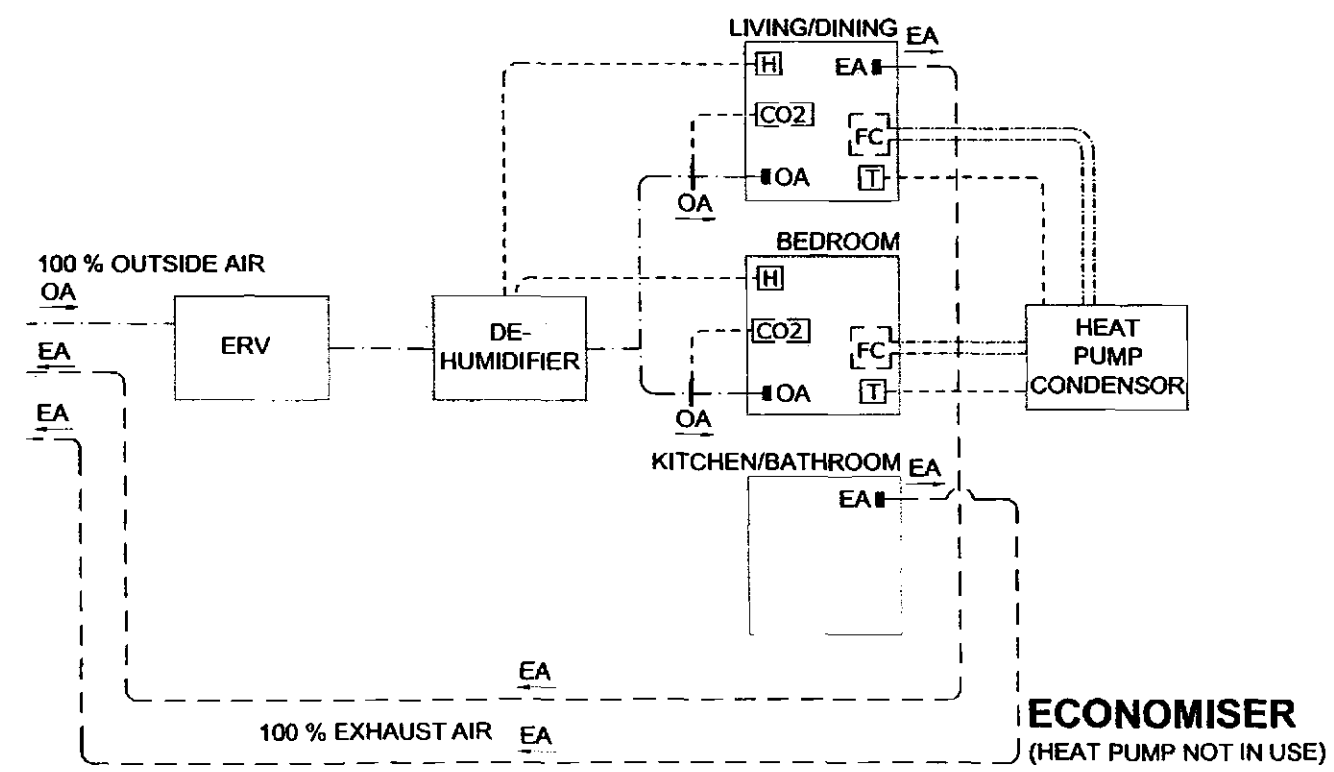
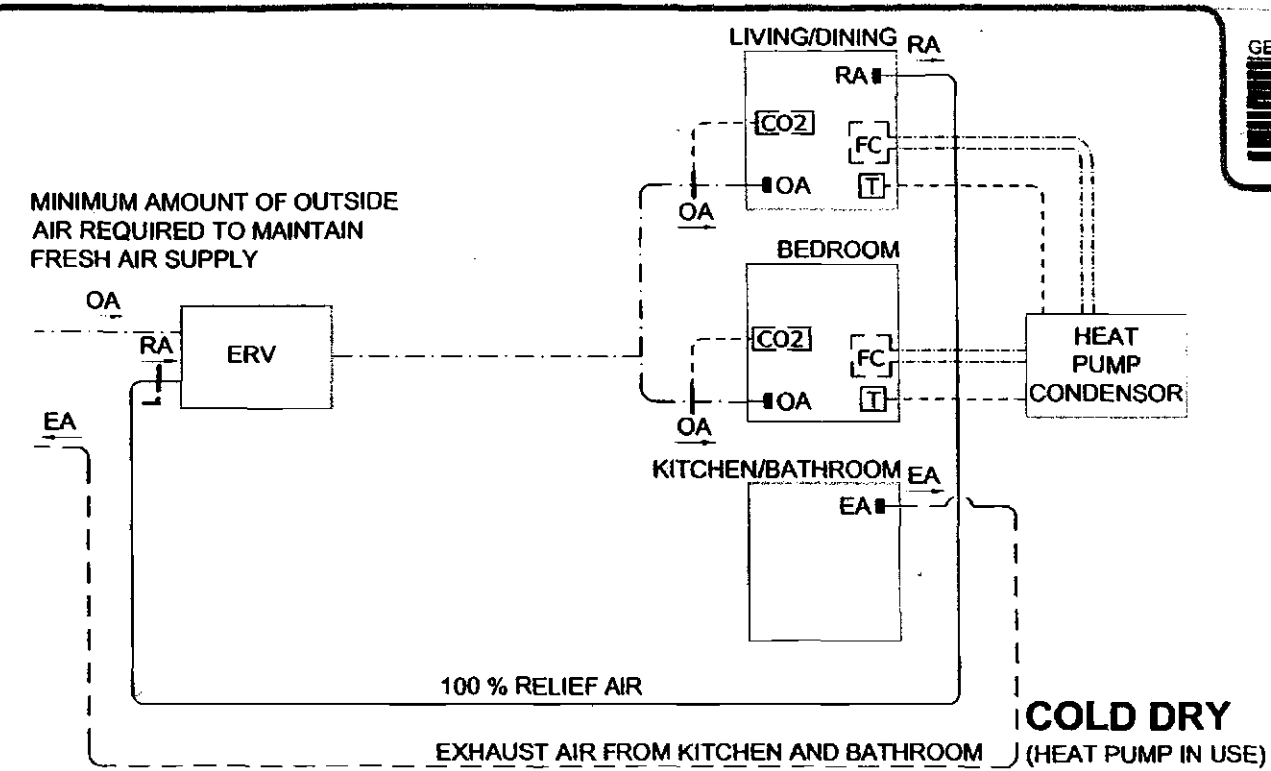
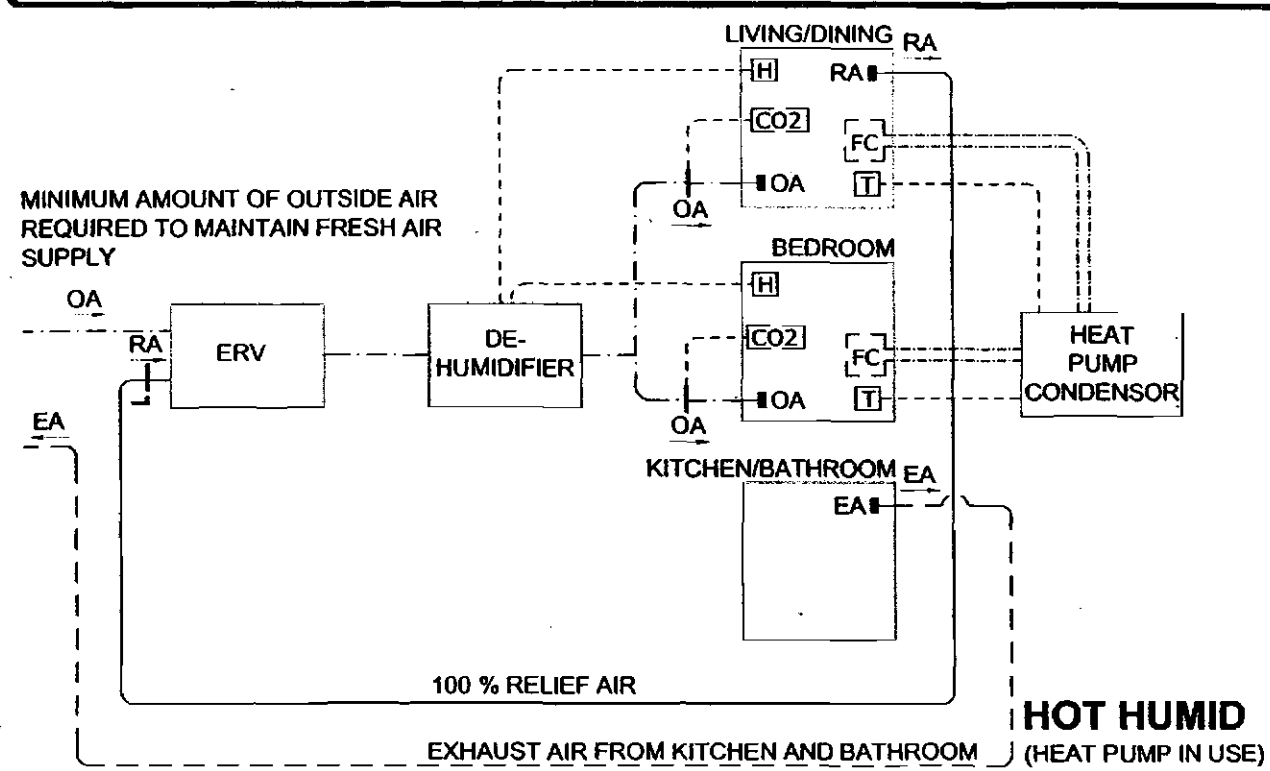
engineer's stamp

prepared by: Ajeeta Dhole
date drawn: 11.30.06
prepared by: Ajeeta Dhole
date drawn: 03.02.07



HVAC SCHEDULE

M.O.O



LEGEND

OA	OUTSIDE AIR
EA	EXHAUST AIR
RA	RELIEF AIR
---	CONTROL LINE
---	REFRIGERANT LINE B/W OUTDOOR CONDENSOR AND INDOOR FAN COIL
	VOLUME DAMPER
	DIVERTING DAMPER
T	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
CO2	CARBON DIOXIDE SENSOR
FC	INDOOR FAN COIL UNIT

date	
description	
revision	

consultants:

engineer's stamp

prepared by:
Ajeeta Dhole

date drawn:
11.30.06

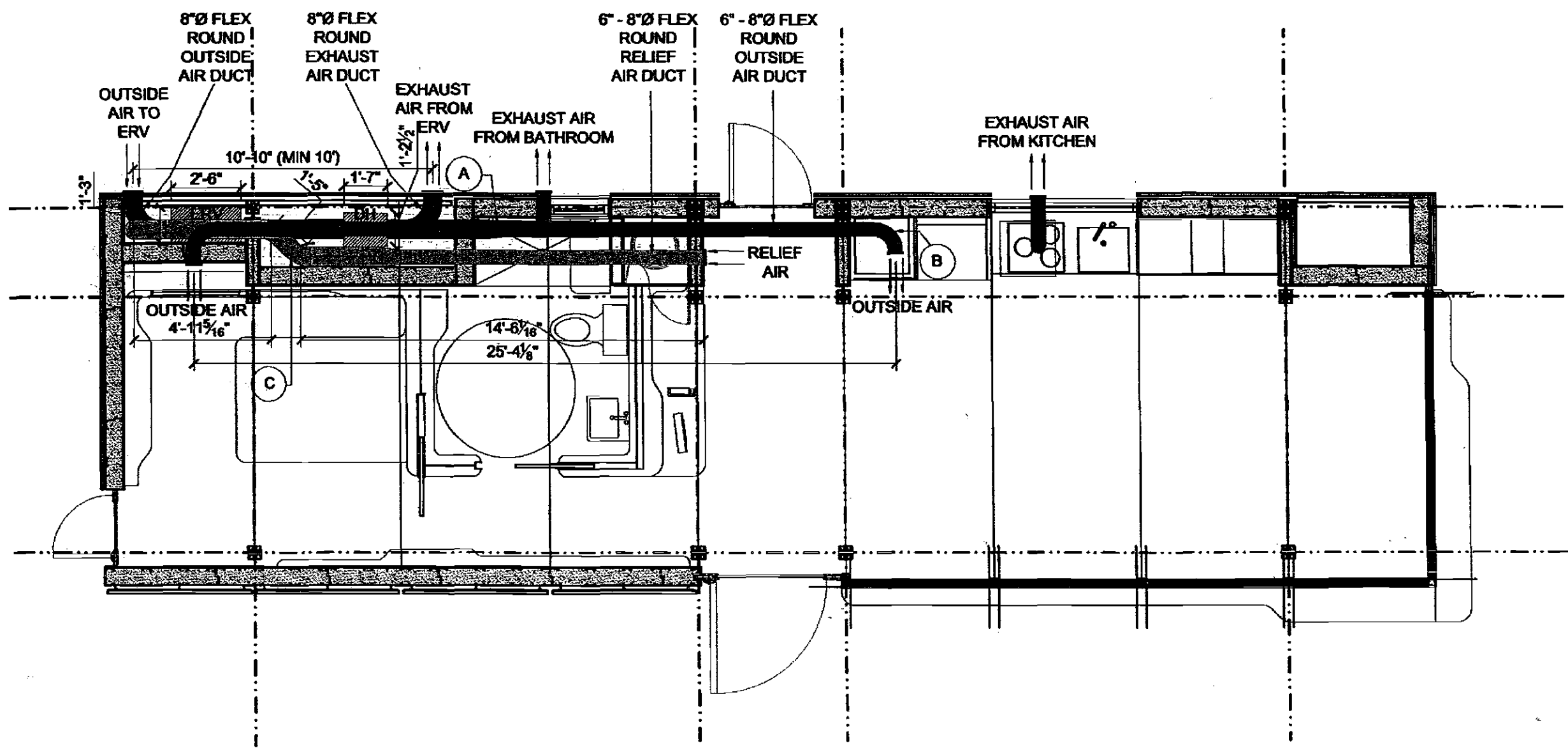
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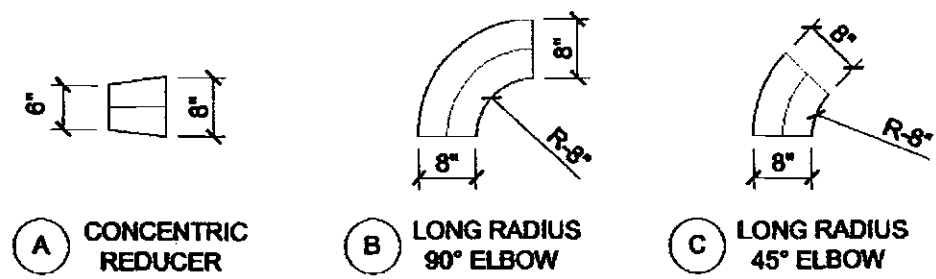
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HVAC CONTROL LOOPS



NOTES:

1. OUTDOOR AIR INLET VENT WITH 1/2" BIRDSCREEN
2. EXHAUST AIR OUTLET VENT WITH 1/2" BIRDSCREEN
3. ENERGY RECOVERY VENTILATOR (ERV) - ULTIMATEAIR 200DX
4. DEHUMIDIFIER - SANTA FE 4025699
5. ALL DUCTWORK- 6"-8" DIA, UNINSULATED, ROUND, FLEX DUCTING



1 PLAN - VENTILATION SYSTEM
M.2.1



date	
description	
revision	

consultants:

engineer's stamp

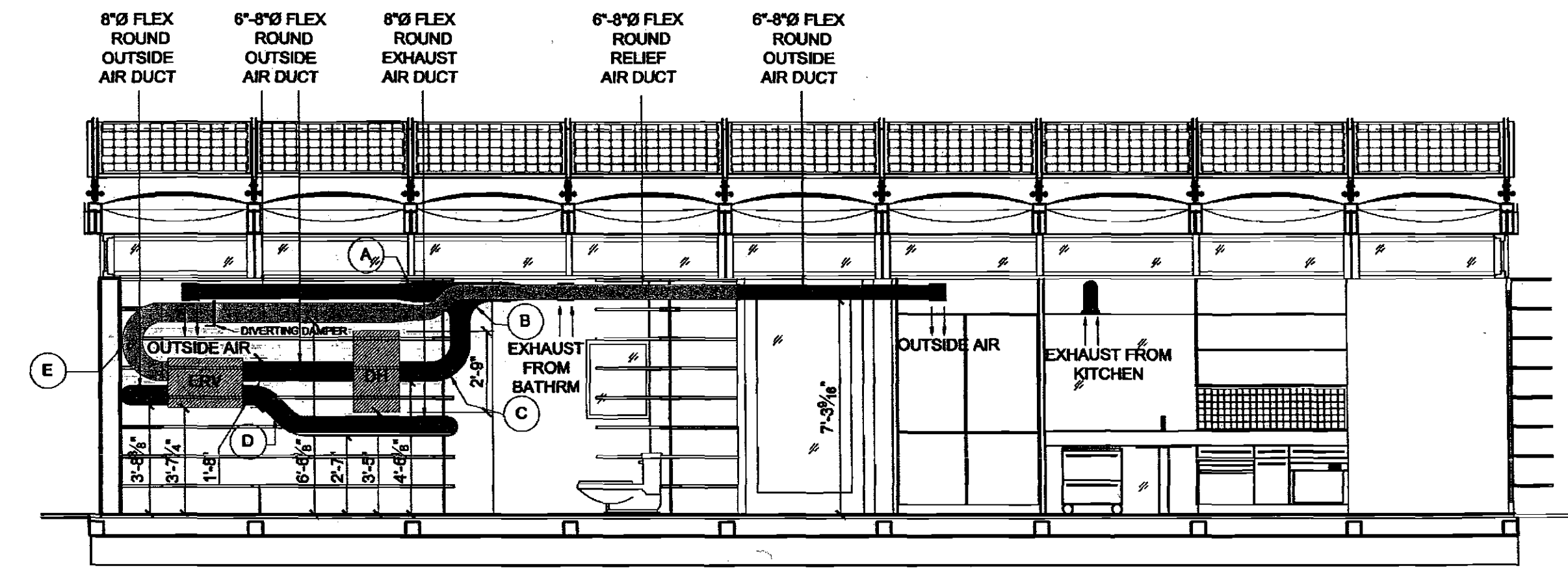
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prepared by:
Ajeeta Dhole
date drawn:
03.02.07



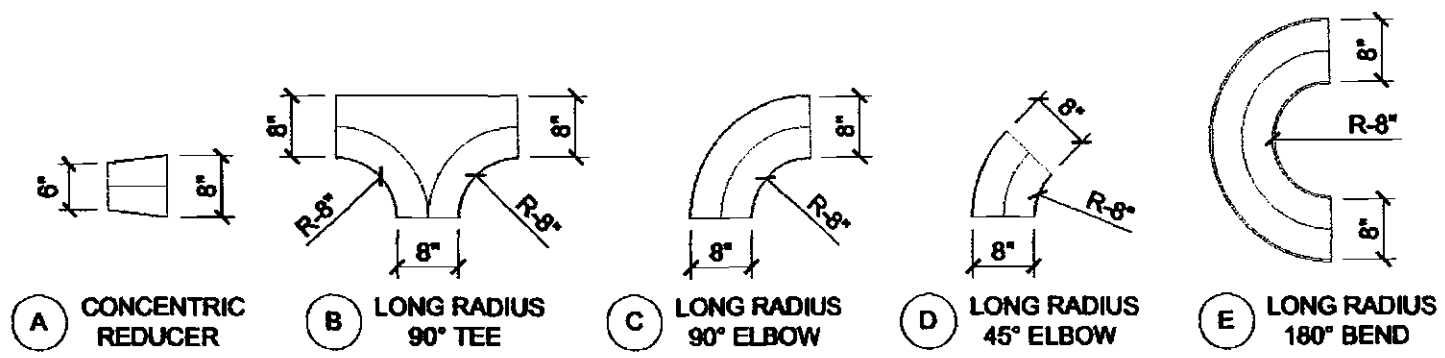
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M.2.1

PLAN - VENTILATION SYSTEM



- NOTES :
1. OUTDOOR AIR INLET VENT WITH $\frac{1}{4}$ " BIRDSCREEN
 2. EXHAUST AIR OUTLET VENT WITH $\frac{1}{4}$ " BIRDSCREEN
 3. ENERGY RECOVERY VENTILATOR (ERV) - ULTIMATEAIR 200DX
 4. DEHUMIDIFIER - SANTA FE 4025699
 5. ALL DUCTWORK- 6"-8" DIA, UNINSULATED, ROUND, FLEX DUCTING



1 SECTIONAL ELEVATION - VENTILATION SYSTEM
M.2.2



date	
description	
revision	

consultants:

engineer's stamp

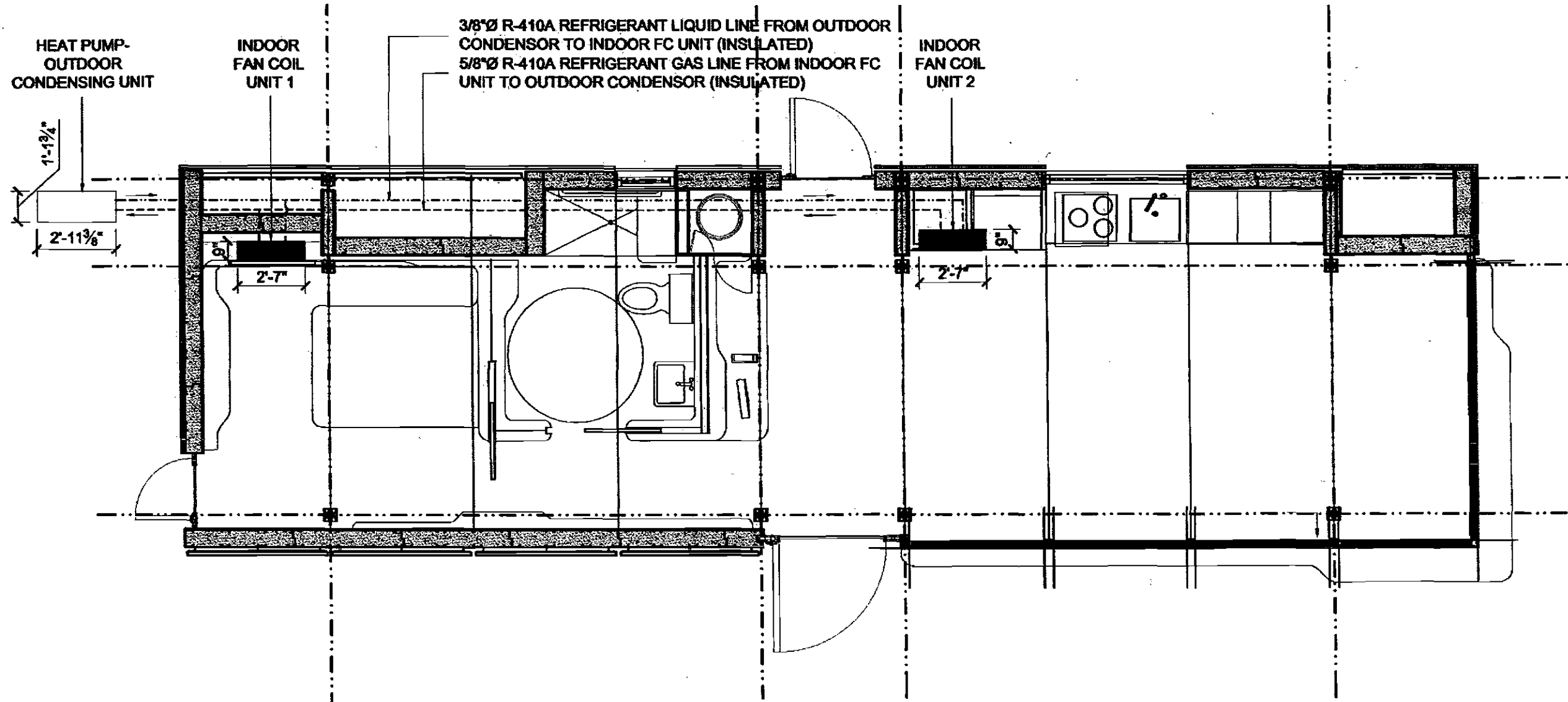
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Ajeeta Dhole
date drawn:
11.30.06
prepared by:
Ajeeta Dhole
date drawn:
03.02.07



scale: 1/4" = 1' 0"

M.2.2

SECTIONAL ELEVATION- VENTILATION SYSTEM



NOTES:

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - DAIKIN RXYMQ36MVJU
2. HEAT PUMP - INDOOR FAN COIL UNIT - DAIKIN FX-A-Q-12-M-VJ-U
3. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

date	
description	
revision	

consultants:

engineer's
stamp

prepared by:

Ajeeta Dhole

date drawn:

11.30.06

prepared by:

Ajeeta Dhole

date drawn:

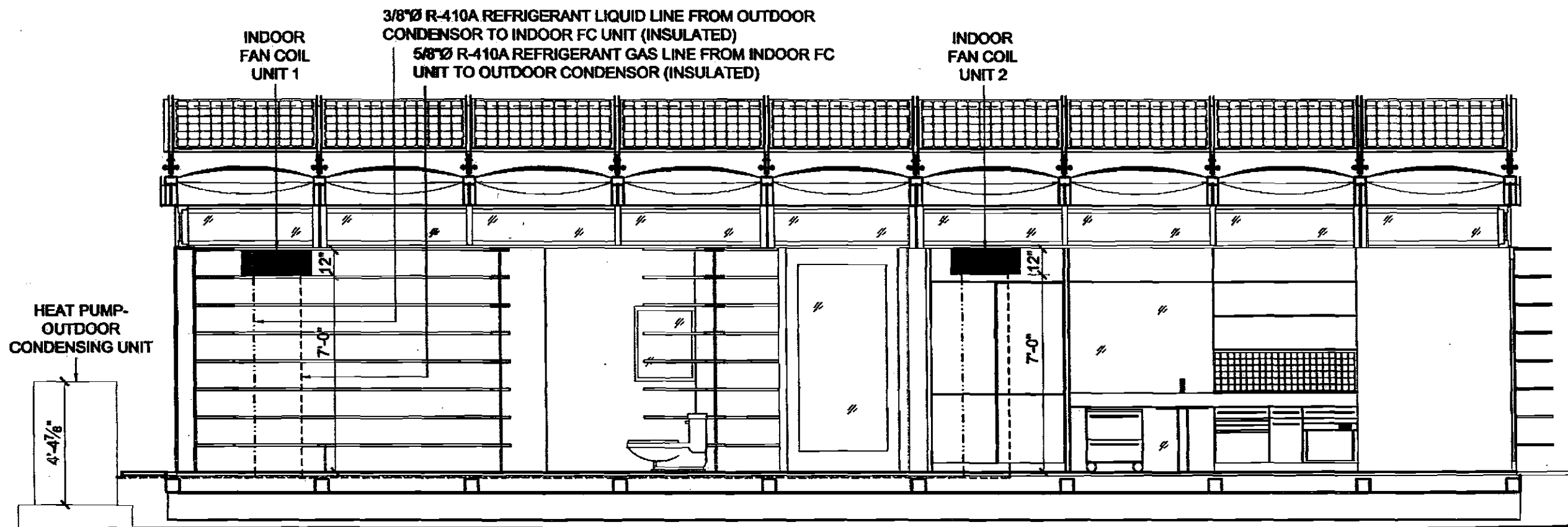
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scale: 1/4" = 1' 0"

M.2.3

PLAN - DUCTLESS MULTI - SPLIT HEAT PUMP



NOTES:

1. HEAT PUMP- OUTDOOR CONDENSING UNIT - DAIKIN RXYMQ36MVJU
2. HEAT PUMP - INDOOR FAN COIL UNIT - DAIKIN FX-A-Q-12-M-VJ-U
3. 12" CLEARANCE TO BE PROVIDED ON ALL SIDES OF THE CONDENSOR UNIT

1
M.2.4

SECTIONAL ELEVATION - DUCTLESS MULTI - SPLIT HEAT PUMP UNIT



date	
description	
revision	

consultants:

engineer's
stamp

prepared by:
Ajeeta Dhole
date drawn:
11.30.06
prepared by:
Ajeeta Dhole
date drawn:
03.02.07



scale: 1/4" = 1' 0"

M.2.4

SEC ELEV - DUCTLESS MULTI-SPLIT HEAT PUMP

ELECTRICAL NOTES

1.0.0 GENERAL

1.0.1 THE PV DIAGRAM DEPICTS A STAND-ALONE PHOTOVOLTAIC SYSTEM WITH BATTERY STORAGE

1.0.2 ALL EQUIPMENTS INCLUDING PV MODULE, INVERTERS, CHARGE CONTROL AND BATTERIES SHALL BE UL LISTED AND SHALL ME ASSEMBLED AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS

1.0.3. PV MOUNTED SUPPORT SHALL BE GROUNDED

2.0.0 RECEPTACLE OUTLETS [REF: SECTION E3801, 2006 REC]

2.0.1 RECEPTACLE IN BEDROOM, DINING, LIVING, STUDY AND KITCHEN SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6'-0" FROM RECEPTACLE OUTLET

2.0.2 FLOOR RECEPTACLES SHALL BE INSTALLED WITHIN 18" DISTANCE FROM THE WALL

2.0.3 RECEPTACLE OUTLETS FOR WALL COUNTER IN KITCHEN SHALL BE INSTALLED SO THAT NO POINT IN ALONG THE WALL LINE IS 24"

2.0.4 RECEPTACLE OUTLETS FOR WALL COUNTER SHALL NOT BE MORE THAN 20" ABOVE THE COUNTER TOP

2.0.5 APPLIANCE RECEPTACLE OUTLETS INSTALLED FOR SPECIFIC APPLIANCES, SUCH AS REFRIGERATOR OR DISH WASHER SHALL BE INSTALLED WITHIN 6'-0" OF THE INTENDED LOCATION OF THE APPLIANCE

2.0.6 RECEPTACLE IN BATHROOM SHALL BE INSTALLED WITHIN 3'-0" OF THE OUTSIDE EDGE OF WASH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON THE WALL OR PARTITION THAT IS ADJACENT TO THE WASH BASIN AND SHALL BE LOCATED WITHIN 20" ABOVE THE BASIN TOP

2.0.7 EXTERIOR RECEPTACLE SHOULD BE WATER PROOFED AND SHALL BE INSTALLED NOT MORE THAN 6'-6" ABOVE DECK LEVEL

2.0.8 ONE 120 V DUPLEX RECEPTACLE SHALL BE INSTALLED WITHIN 25'-0" DISTANCE FROM HVAC EQUIPMENTS FOR SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT

1.0.9 BATHROOM AND KITCHEN COUNTER RECEPTACLE SHALL HAVE GFCI PROTECTION [REF: SECTION E3802, 20006 REC]

3.0.0 LOCATION OF SWITCHES, CONTROLS AND RECEPTACLE OUTLETS [REF: ADA GUIDELINES]











3.0.1 ALL SWITCHES, CONTROLS AND RECEPTACLE SHALL BE MINIMUM OF 15" AND MAXIMUM OF 54" TO CENTERLINE, ABOVE THE FINISHED FLOOR LEVEL

4.0.0 WIRING

4.0.1 ALL WIRING FOR INTERIOR SPACES SHALL RUN BELOW THE FINISHED FLOOR AND SHALL PULLED UP ON THE WALL SURFACE FOR ELECTRICAL INSTALLATIONS THROUGH WIRE CHASE WITHIN SIP WALLS

4.0.2 CONTROLS, DATA, TV AND TELEPHONE WIRING SHALL BE INDEPENDENT OF 120V AC/ 240V AC WIRING

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	120 V DUPLEX RECEPTACLE
	120 V DUPLEX RECEPTACLE (GFCI AND WATER PROOF)
	120 V DUPLEX RECEPTACLE (GFCI)
	120 V SPECIAL PURPOSE RECEPTACLE OUTLET
	240 V SPECIAL PURPOSE RECEPTACLE OUTLET
	FLOOR RECEPTACLE
	SMOKE DETECTOR
	TELEPHONE
	DATA
	TV

date	
revision	
description	

consultants:

engineer's
stamp

prepared by:
Shreyansh
date drawn:
03.02.07
12.06.08



scale: none

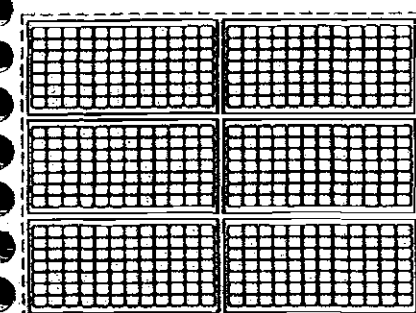
E.0.0

ELECTRICAL NOTES/ LEGEND

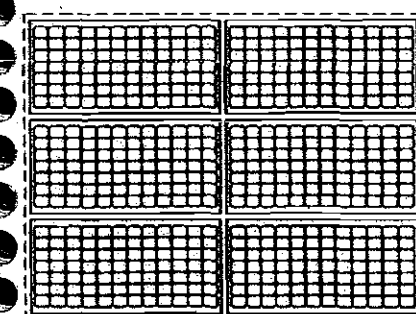
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ROOF ARRAY 2

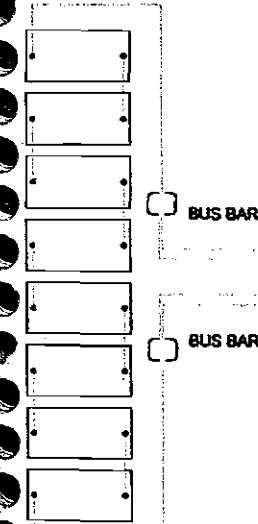
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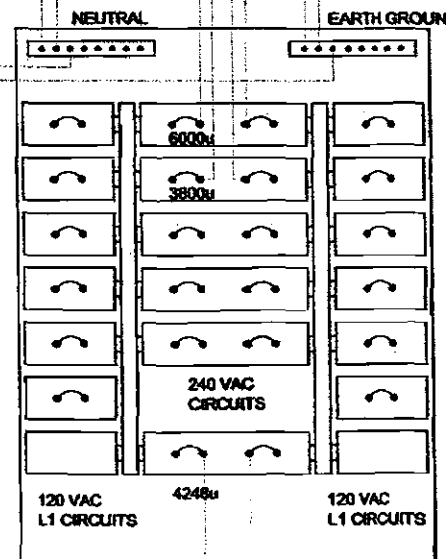
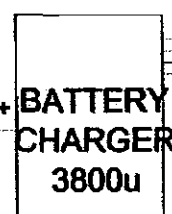
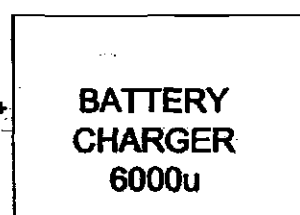
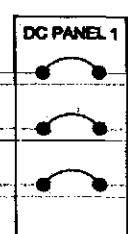
WALL ARRAY BANK 1



WALL ARRAY BANK 2



BATTERY BANK



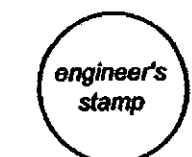
AC LOAD CENTER

NOTES:

1. EACH ROOF BANK CONSISTS OF 9 SUNPOWER 220 PANELS WIRED IN SERIES. DC VOLTAGE AT MAXIMUM POWER POINT IS 358 VOTLS @ 5.53 AMPS. MAXIMUM VOLTAGE WITH LOW/ NO LOAD IS 435 VOLTS.
2. FRONT WALL BANK CONSISTS OF 12 SUNPOWER 215 SPLIT INTO TWO BANKS, EACH WIRED IN SERIES PANELS. DC VOLTAGE AT MAXIMUM POWER POINT IS 358 VOTLS @ 5.53 AMPS. MAXIMUM VOLTAGE WITH LOW/ NO LOAD IS 435 VOLTS.
3. BATTERY BANK CONSISTS OF 8 MODULES OF GNB ABSOLYTE MODEL # 3-100A33 (SEALED). MODULE VOLTAGE 6V AND BUS VOLTAGE 48V
4. 120 VAC OUTPUT FROM EACH 4248u INVERTER IS STACKED TO GIVE 240VAC.

date	description	revision

consultants:



prepared by:
Shreyansh
date drawn:
03.03.07
12.03.06



scale: none

E.1.0

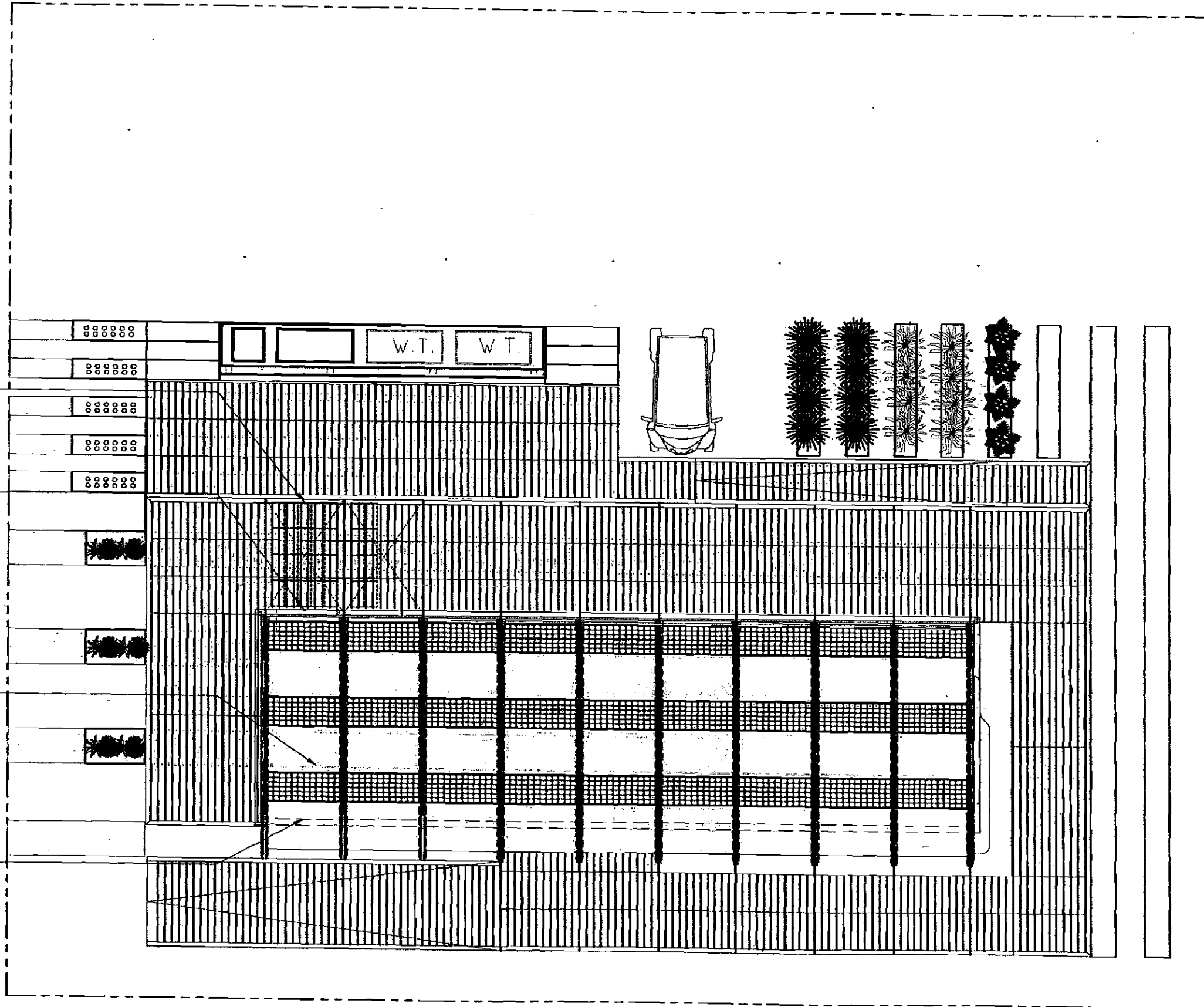
PV ARRAY

BATTERY BANK
BELOW THE DECK

LOCATION OF
ELECTRIC CLOSET

PV ARRAY ON
THE ROOF

PV ARRAY ON
THE SOUTH WALL



date

description

revision

consultants:

engineer's
stamp

prepared by:
Shreyansh
date drawn:
03.03.07
12.03.06



scale: none

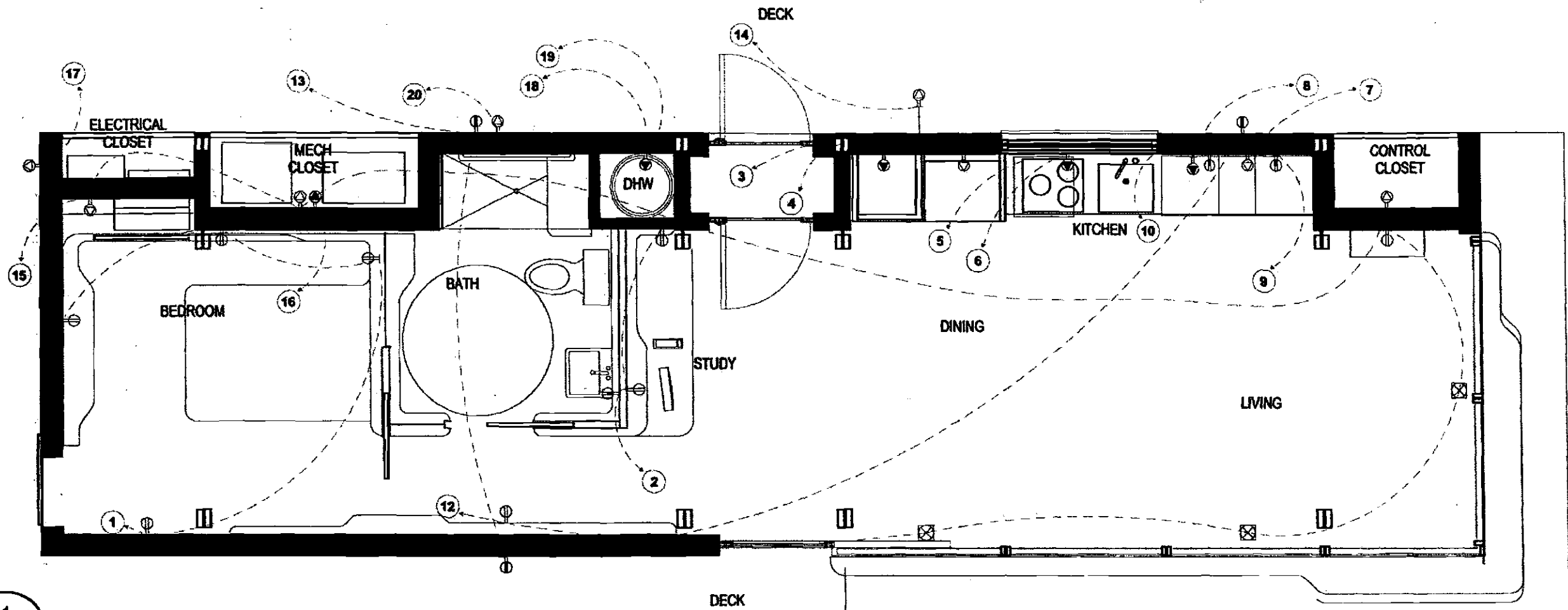
SITE ELECTRICAL

1

SITE ELECTRICAL

E.2.0

E.2.0



1
E.2.1

AC POWER PLAN

Branch Circuit Schedule

Circuit	Location	Monitor (Y/N)	Equipments /Outlets /Appliances	Power [VA]	Volts [V]	Amperes [A]	CB Size [A]	Conductor [AWG]	L1	L2
1	Bedroom	Y	Wall receptacles, bedroom lighting	820	120	6.8	15	#14		6.8
2	Bath/ office	Y	Counter receptacle, bath lighting, office receptacles, office lighting	565	120	4.7	15	#14		4.7
3	Kitchen	Y	Refrigerator	350	120	2.9	15	#14	2.9	
4	Kitchen	Y	Washer/dryer	1200	120	10.0	20	#12	10.0	
5,6	Kitchen	Y	Range	7600	240	31.7	40	#8	31.7	31.7
7	Kitchen	Y	Dishwasher	780	120	6.5	20	#12	6.5	
8	Kitchen	N	Microwave/ oven	1800	240	7.5	20	#12	7.5	
9	Kitchen	N	Counter receptacles	180	120	1.5	20	#12	1.5	
10	Kitchen	N	Counter receptacles	180	120	1.5	20	#12		1.5
11	Kitchen	Y	Kitchen lighting, dining lighting	75	120	0.6	15	#14		0.6
12	Living/Dining room	Y	Wall receptacles, floor receptacles, living room lighting	820	120	6.8	15	#14	6.8	
13	Deck	Y	outdoor receptacles, outdoor lighting	350	120	2.9	15	#14	2.9	
14	Exterior	Y	Charging station (receptacle)	850	120	7.1	20	#12	7.1	
15	Mechanical	Y	ERV, Heat pump-indoor (bedroom), heat pump indoor (living room)	1504	120	12.5	20	#12		12.5
16	Mechanical	Y	Dehumidifier	750	240	3.1	20	#12		3.1
17	Mechanical	Y	Heat pump-outdoor	2180	120	18.2	20	#10		18.2
18,19	DHW	Y	Hot water back-up	1100	240	4.6	20	#12		4.6
20	Exterior	Y	Glycol pump	100	120	0.8	15	#14		0.8
			Total	21204					78.92	84.58
Assumptions:										
100W of lights in bedroom										
25W of lights in bath/office										
75W of lights in kitchen/dining										

date	
description	
revision	

consultants:

engineer's stamp

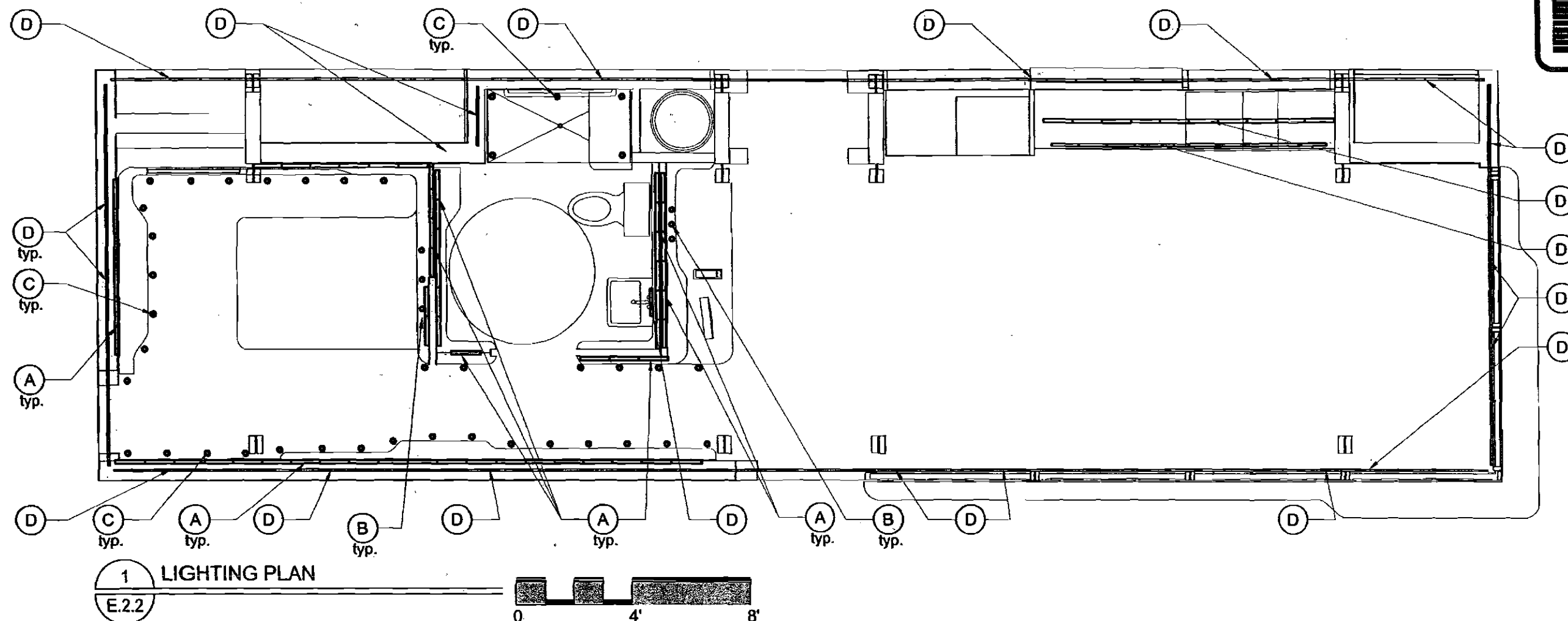
prepared by:
Shreyansh
date drawn:
03.02.07
12.06.06



scale: none

E.2.1

AC POWER PLAN



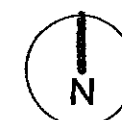
Symbol	Fixture Name	Catalog Number	Company	Location	Fixture Type	Mounting
A	iW Cove Powercore	523-000002-00	Color Kinetics	Kitchen, Bathroom, Bedroom	LED Cove	Surface-mounted to underside of cabinets, Backlighting for shelving, Rooflighting
B	iW MR	500-000002-01	Color Kinetics	Bedroom, Desk	LED Task	Surface-mounted to underside of AWPL fins
C	Trail-Lite	227461	Solavanti	Bedroom, Hall, Bathroom	LED Task	Recessed into floor
D	iW Profile g2	501-000010-00	Color Kinetics	Bathroom, Kitchen, Clerestory	LED Cove	Surface-Mounted to Bottom of Clerestory, Underside of Cabinets

date	
revision	
description	

consultants:

engineer's stamp

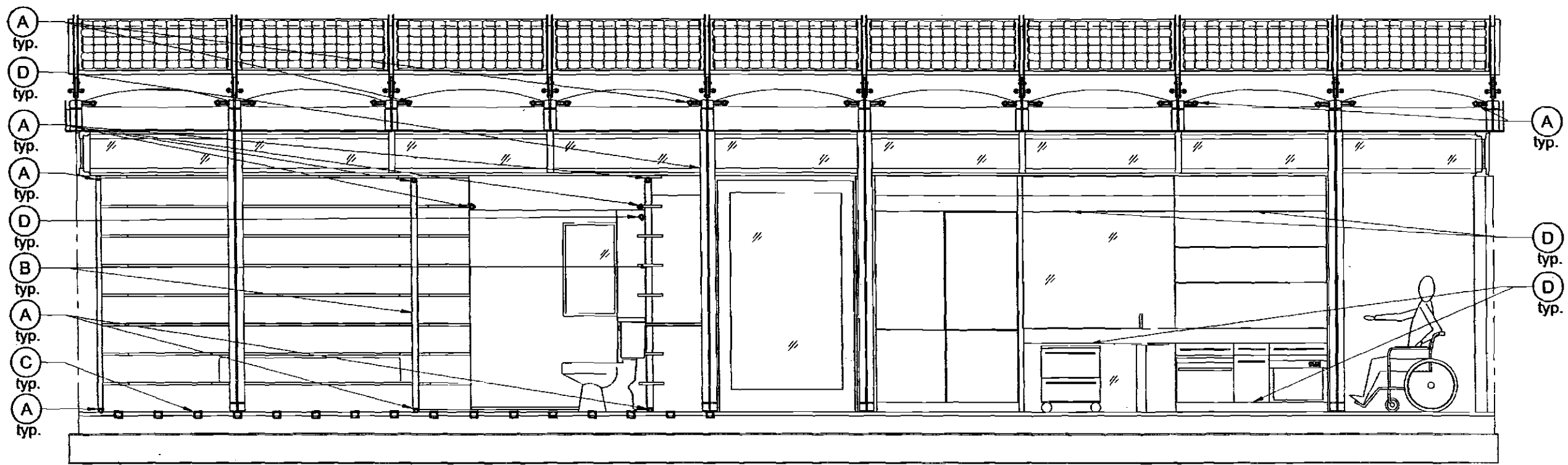
prepared by:
Amanda Cook
JC Elder
date drawn:
02.27.07
11.27.06



scale: 1/4" : 1' 0"

E.2.2

LIGHTING PLAN



1 LONGITUDINAL LIGHTING SECTION
E.2.3



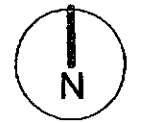
NOTE: SEE FIXTURE SCHEDULE ON E.4.1 FOR FIXTURE DETAILS

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description	
revision	

consultants:

engineer's stamp

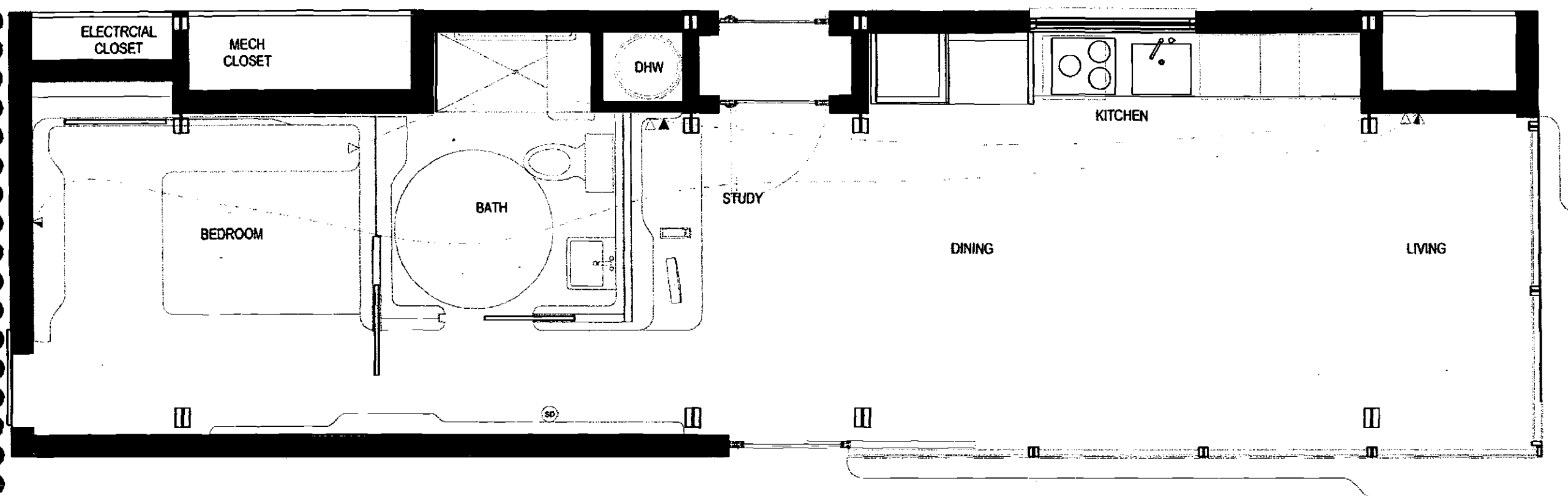
prepared by:
Amanda Cook
JC Elder
date drawn:
02.27.07
11.27.06



scale: 1/4" : 1' 0"

E.2.3

LIGHTING PLAN



date	
revision	
description	

consultants:

engineer's stamp

prepared by:
Shreyansh
date drawn:
03.02.07



scale: none

E.2.4

1

DATA/ VOICE/ SECURITY PLAN

E.2.3

DATA/ VOICE/ SECURITY PLAN

Lighting Fixture Schedule

[illegible]

GEORGIA TECH SOLAR DECATHLON 07

revision	description	date

consultants:

engineer's
stamp

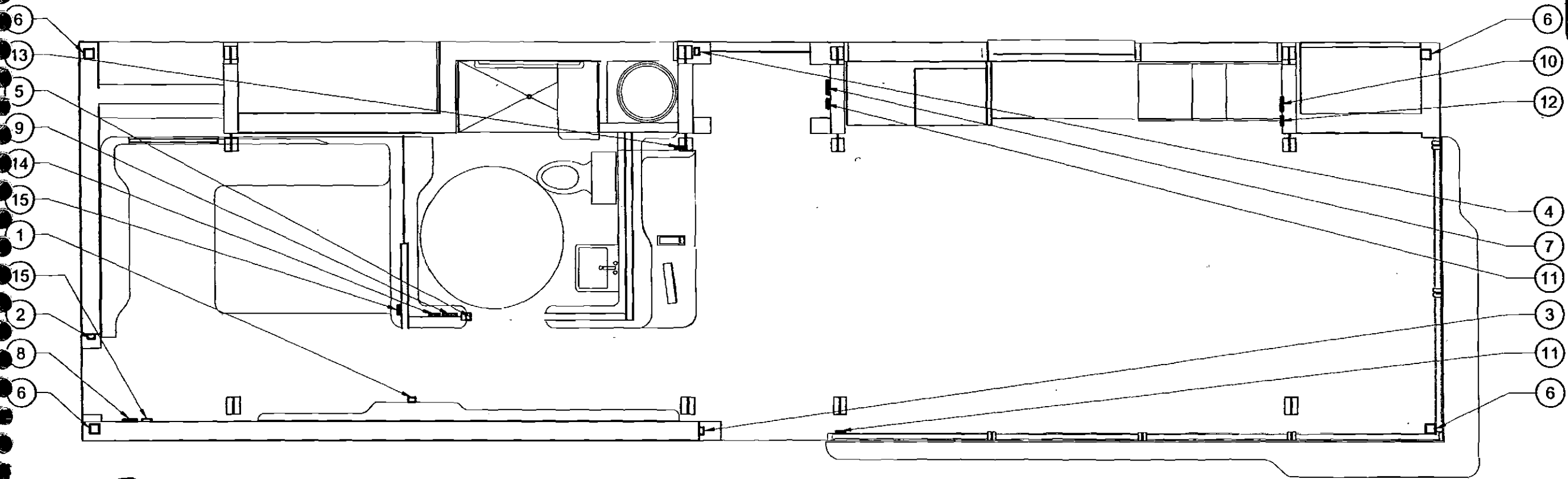
prepared by:
Amanda Cook
JC Elder

date drawn:
02.27.07
11.27.06



E.4.1

LIGHTING FIXTURE SCHEDULE



1 LIGHTING CONTROLS PLAN
E.4.2



Lighting Controls Schedule Tentative

Control ID	Control Type	Name	Catalog Number	Company	Location	Associated Fixtures	Quantity
1	Motion Sensor				Bedroom	All Bedroom Fixtures	1
2	Motion Sensor				Rear Entrance	All Living Fixtures	1
3	Motion Sensor				Front Entrance	All Living Fixtures	1
4	Motion Sensor				Side Entrance	All Bedroom Fixtures	1
5	Motion Sensor				Bathroom	All Bathroom Fixtures	1
6	Photometric				Clerestory Corners	Structure and Clerestory Fixtures	4
7	Automated				Living	All Living Fixtures	1
8	Automated				Bedroom	All Bedroom Fixtures	1
9	Automated				Bathroom	All Bathroom Fixtures	1
10	Automated				Kitchen	Under Cabinet Fixtures	1
11	Manual Dimming				Living	All Living Fixtures	2
12	Manual Dimming				Kitchen	Under Cabinet Fixtures	1
13	Manual Dimming				Work	Desk Task Lights	1
14	Manual Dimming				Bathroom	All Bathroom Lights	1
15	Manual Dimming				Bedroom	All Bedroom Lights	2

date

description

revision

consultants:

engineer's stamp

prepared by:
Amanda Cook
JC Elder

date drawn:
02.27.07
11.27.06



scale: 1/4" : 1' 0"

E.4.2

LIGHTING CONTROLS DETAILS

Plumbing Main Device

Number	Manufacturer	Model	Description	Quantity	Dimensions	Weight
1	SUNDA	SEIDO 2	3 Panels of 8 Evacuated Tubes	3	79" L x 4" W x 32" T	110 Pounds
2	N/A	N/A	PV Cooling Mat (GT manufacture) Water Circulation through PEX Tubes	1	N/A	N/A
3	RHEEM / AET altenergystore.com	12R80HE	80 gal Hot Water Tank with Elec.Backup	1	58.75" T x 24.5" DIA	212 Pounds
4	ESS / AET altenergystore.com	12DB10SS	15 gal Auxiliary Hot Water Tank	1	19" T x 16" DIA	52 Pounds
5	NORWESCO	40181	525 gal Potable Storage Tank	1	54" T x 71" L x 49" D	N/A
6	NORWESCO	40217	325 gal Grey Water Storage Tank	1	43" T x 68" L x 38" D	N/A
7	NORWESCO	41861	100 gal Black Water Storage Tank	1	43" T x 28" D	N/A
8	TACO / AET altenergystore.com	13T008F	Main Water Supply Pump (1/25Hp, 14gpm)	1	N/A	N/A
9	AET altenergystore.com	12ETK30015	2 gal Expansion Tank One for 80G tank, One for 15G tank	2	app 12 5/8" T x 8" D	8 Pounds
10	AET altenergystore.com	ELSID5W	Variable Sped, PV powered Pump Pump to Evacuated Tube, PV Cooling Mat	2	N/A	N/A
11	Advantage Control Inc.	DAGF-1	Glycol 50 gal Tank Package (1.5 gpm) Polyethylene, Pump, Digital Control built-in	1	5'3" T x 28" W	140 pounds
12	Vanguard	MXBD14-3	Manifold -1/2"PEX 6 hot, 8 cold	1	N/A	N/A
13	Vanguard	3/4" 1/2" 3/8"	Cold and Hot Water Pipe	N/A	N/A	N/A
14	Grundfos	UP10-16BU/ATLC	Hot Water Recirculation pump	1	N/A	N/A
15	AET altenergystore.com	16CKVW05	1/2" Check Valve	2	N/A	N/A
16	AET altenergystore.com	16PRVLEG05A	3/4" Pressure Relief Valve	2	N/A	N/A
17	AET altenergystore.com	16BVG05	1/2" Shutoff Valve	2	N/A	N/A
18	AET altenergystore.com	16BDG05	1/2" Boiler Drain	2	N/A	N/A
19	AET altenergystore.com	16AVLEG02	1/4" Air Vent	2	N/A	N/A
20	AET altenergystore.com	1616PG02	Pressure Gauge	2	N/A	N/A
21	AET altenergystore.com	HELSAS-10	Temperature Sensor Potable, 80G, 15G Tank, Evac., PV Mat	5	N/A	N/A
22	To be determined	N/A	Level Indicator	1	N/A	N/A
23	To be determined	N/A	Irrigation Pump	2	N/A	N/A
24	To be determined	N/A	Rain Water Tank	2	N/A	N/A

NOTES:

- 1.01 PEX TUBING AT $\frac{3}{8}$ " DIAMETER WILL BE USED WITH A PLUMBING MANIFOLD.
- 1.02 THE TOILET IS FOR DEMONSTRATION PURPOSES ONLY AND IS NOT CONNECTED.
- 1.03 ALL WASTE LINES SLOPE AT $\frac{1}{4}$ " PER FOOT TOWARD TANKS.
- 1.04 SOLAR COLLECTOR FLUID (GLYCOL/WATER MIX) IS IN A CLOSED LOOP AND WILL NEVER MIX WITH THE POTABLE WATER SUPPLY.
- 1.05 DOE SUPPLIED POTABLE WATER WILL NOT BE CONSUMED BY VISITORS OR DECATHLETES AT ANY POINT DURING THE COMPETITION.
- 1.06 STUDOR VENTS ARE USED IN PLACE OF THROUGH-ROOF VENTING. LOCAL CODES ARE TO BE FOLLOWED ALONG WITH MANUFACTURER'S INSTRUCTIONS.
- 1.07 THE RAINWATER COLLECTED FROM THE ROOF IS FOR IRRIGATION PURPOSES ONLY, AND WILL NOT IRRIGATE EDIBLE PLANTS.

1.99 REFER TO MORE NOTES IN EACH DRAWING.

consultants:

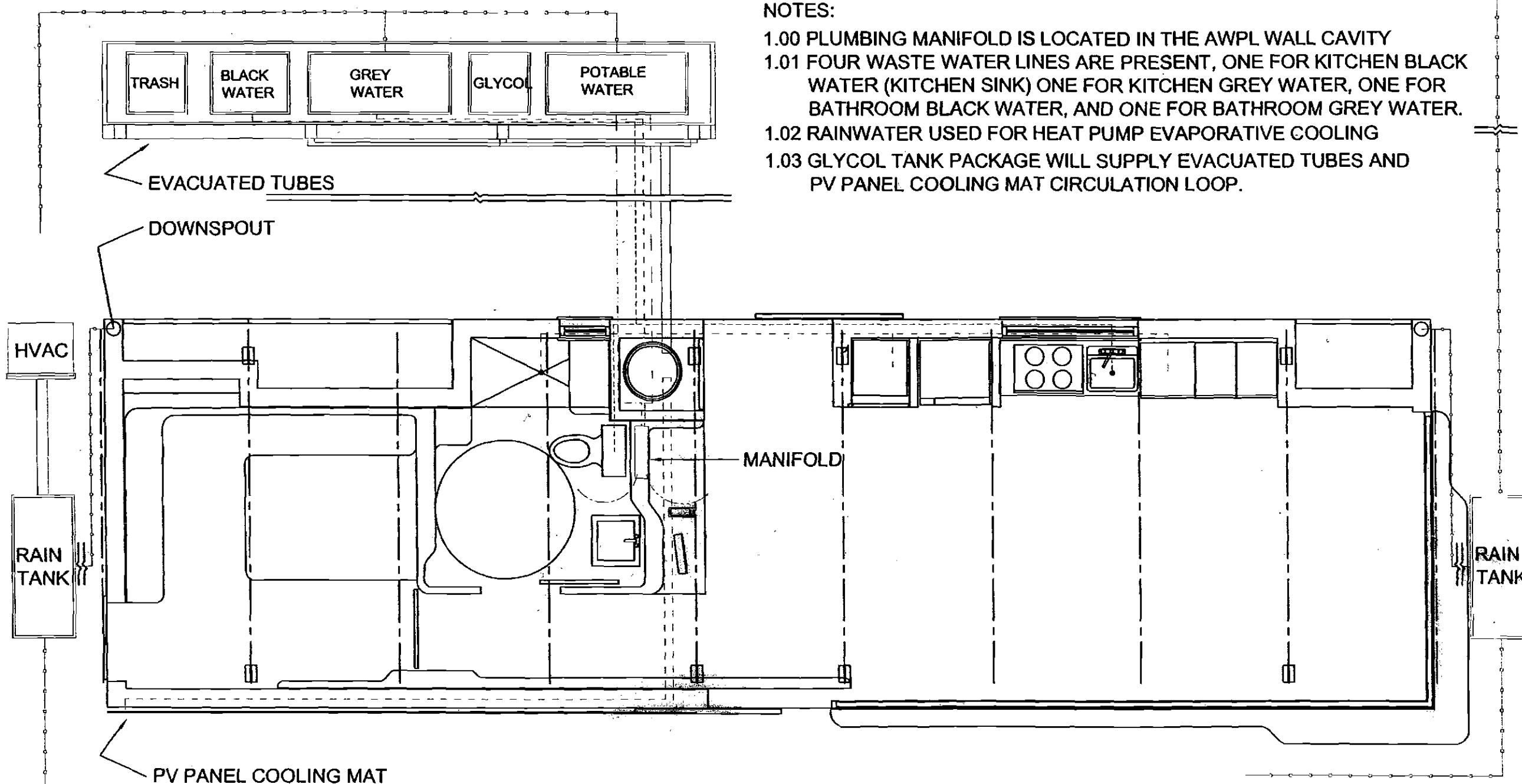
prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



scale: NTS

P.O.O

PLUMBING NOTES



NOTES:

- 1.00 PLUMBING MANIFOLD IS LOCATED IN THE AWPL WALL CAVITY
- 1.01 FOUR WASTE WATER LINES ARE PRESENT, ONE FOR KITCHEN BLACK WATER (KITCHEN SINK) ONE FOR KITCHEN GREY WATER, ONE FOR BATHROOM BLACK WATER, AND ONE FOR BATHROOM GREY WATER.
- 1.02 RAINWATER USED FOR HEAT PUMP EVAPORATIVE COOLING
- 1.03 GLYCOL TANK PACKAGE WILL SUPPLY EVACUATED TUBES AND PV PANEL COOLING MAT CIRCULATION LOOP.

- SUPPLY TO HOT
- SUPPLY TO COLD
- COLD DISTRIBUTION
- HOT DISTRIBUTION
- WASTE TO GREY TANK

- WASTE TO BLACK TANK
- EVAC TUBE CLOSED LOOP
- PV WALL CLOSED LOOP
- RAINWATER FROM ROOF
- WATER TO GARDENS

001	12.04.2006
002	03.02.2007

Tanks added under deck
Glycol Package added

consultants:

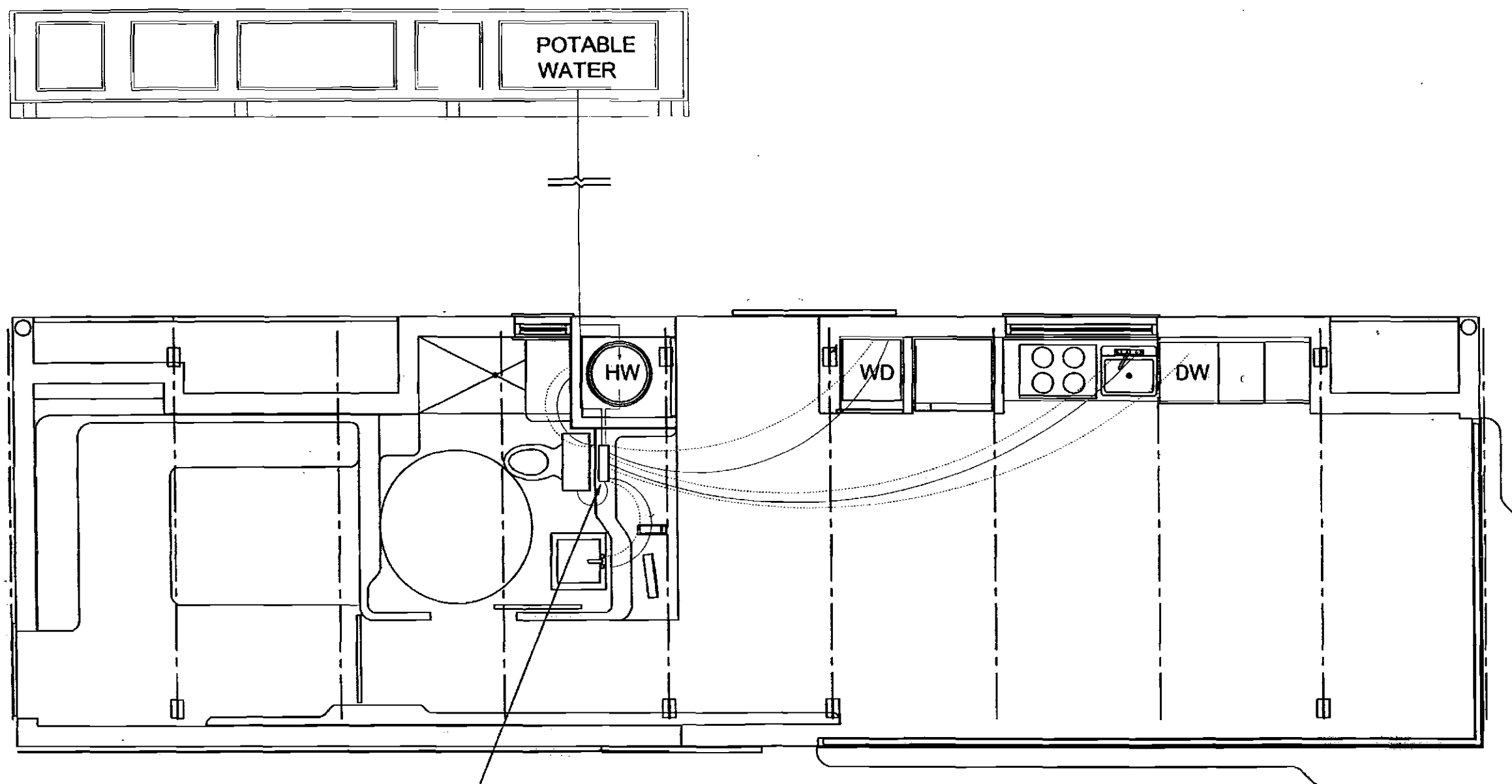
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C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



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P.1.0

PLUMBING PLAN OVERVIEW



MANIFOLD

HOT SUPPLY
COLD SUPPLY

12.04.2006

NEW TANKS FOR KITCHEN

001

consultants:

prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



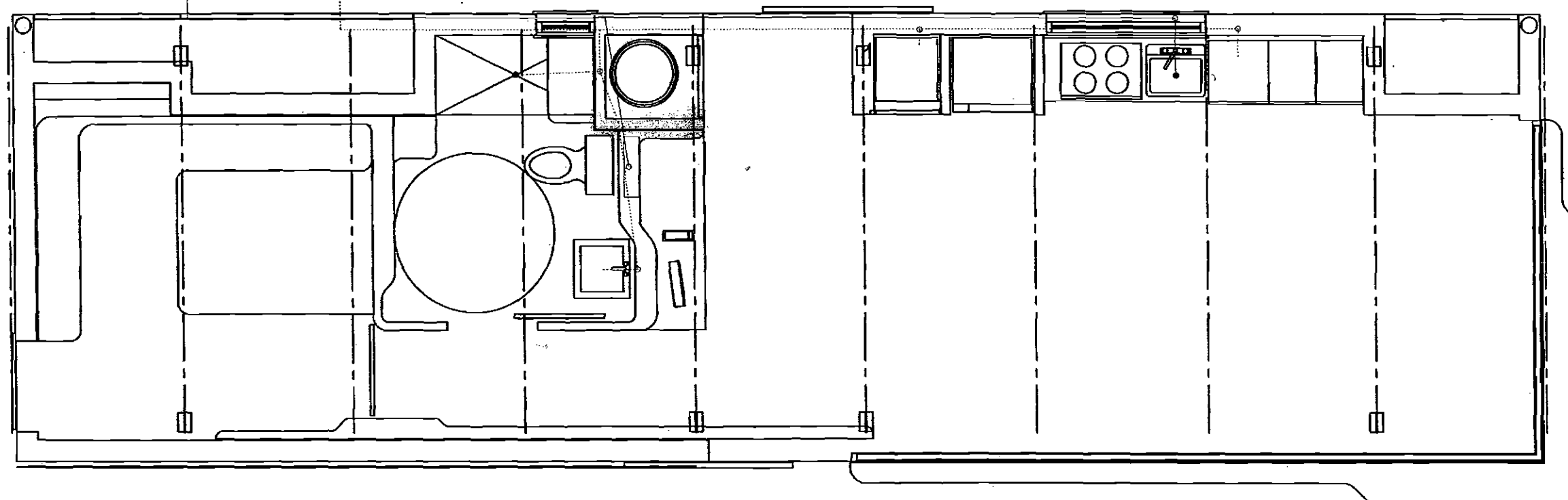
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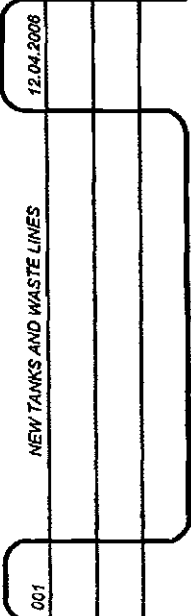
PLUMBING SUPPLY PLAN



NOTE:
1.00 ALL WASTE LINES TO SLOPE AT $\frac{1}{4}$ " PER FOOT.



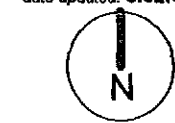
GREY WASTE
BLACK WASTE



consultants:



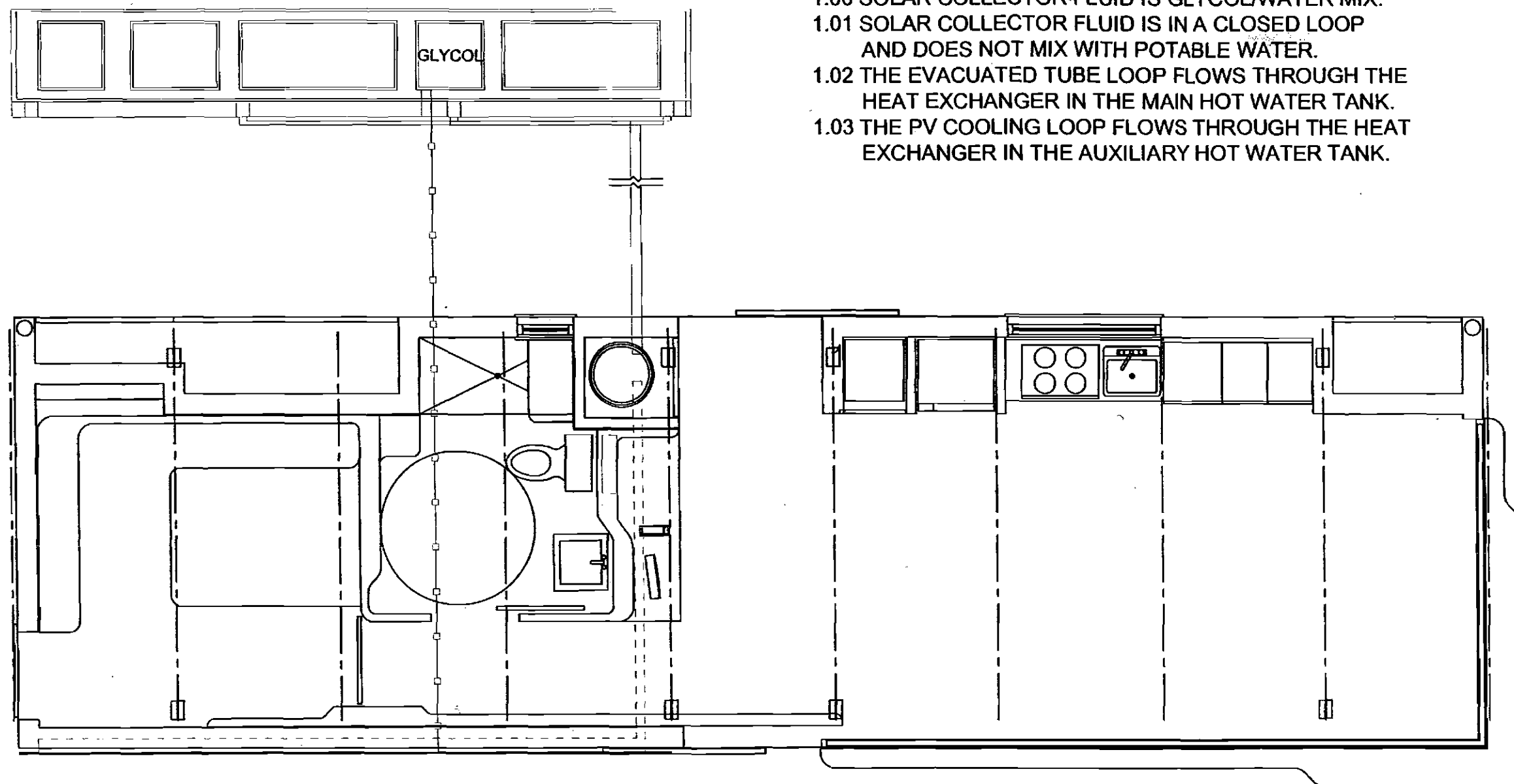
prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



scale: NTS

P.1.2

PLUMBING WASTE PLAN



NOTES:

- 1.00 SOLAR COLLECTOR FLUID IS GLYCOL/WATER MIX.
- 1.01 SOLAR COLLECTOR FLUID IS IN A CLOSED LOOP AND DOES NOT MIX WITH POTABLE WATER.
- 1.02 THE EVACUATED TUBE LOOP FLOWS THROUGH THE HEAT EXCHANGER IN THE MAIN HOT WATER TANK.
- 1.03 THE PV COOLING LOOP FLOWS THROUGH THE HEAT EXCHANGER IN THE AUXILIARY HOT WATER TANK.

————— EVAC TUBE CLOSED LOOP
 - - - - - PV WALL CLOSED LOOP
 —○—○—○—○— GLYCOL SUPPLY

12.04.2008

NEW TANKS IN KITCHEN

001

consultants:

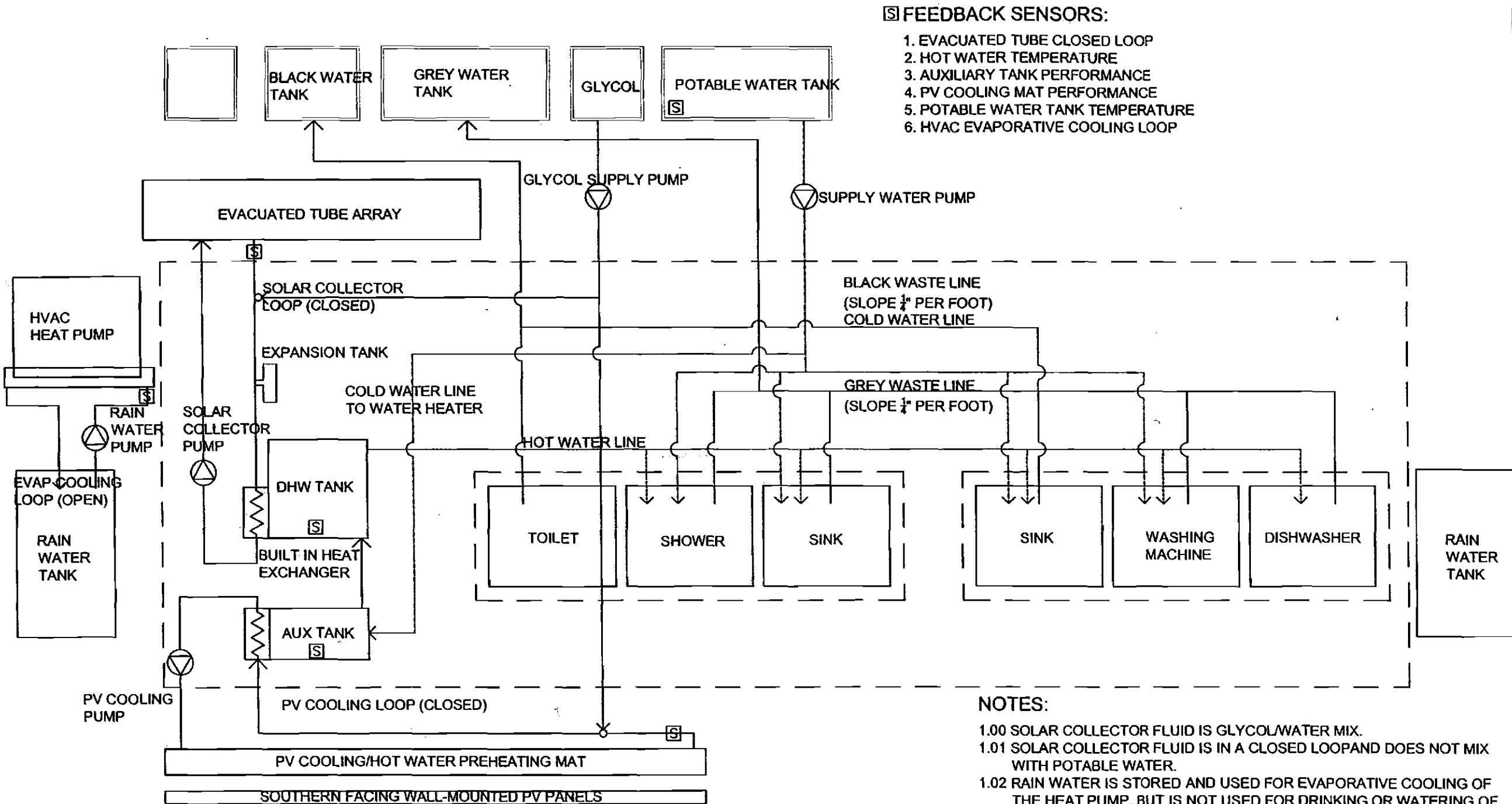
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 C. JASON MABRY
 date drawn: 11.27.06
 updated by:
 Sang-Hoon Lee
 Rannie Daffon
 date updated: 3.02.07



scale: NTS

P.1.3

PLUMBING HOT WATER: SOLAR HEATING LOOPS



FEEDBACK SENSORS:

1. EVACUATED TUBE CLOSED LOOP
2. HOT WATER TEMPERATURE
3. AUXILIARY TANK PERFORMANCE
4. PV COOLING MAT PERFORMANCE
5. POTABLE WATER TANK TEMPERATURE
6. HVAC EVAPORATIVE COOLING LOOP

NOTES:

- 1.00 SOLAR COLLECTOR FLUID IS GLYCOL/WATER MIX.
- 1.01 SOLAR COLLECTOR FLUID IS IN A CLOSED LOOP AND DOES NOT MIX WITH POTABLE WATER.
- 1.02 RAIN WATER IS STORED AND USED FOR EVAPORATIVE COOLING OF THE HEAT PUMP, BUT IS NOT USED FOR DRINKING OR WATERING OF EDIBLE PLANTS.
- 1.03 GREY WATER AND BLACK WATER ARE SEPARATE SYSTEMS.
- 1.04 THE SOLAR HOT WATER SYSTEM IS COMPRISED OF EVACUATED TUBES AND HEAT RECOVERED FROM BEHIND THE FACADE MOUNTED PV PANELS.
- 1.05 DOMESTIC WATER IS SERVICED THROUGH A PLUMBING MANIFOLD, AND TUBING IS 1/2" PEX TUBING.

12.04.2006

ADDITION OF KITCHEN TANKS

001

consultants:

prepared by:
C. JASON MABRY
date drawn: 11.27.06

updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



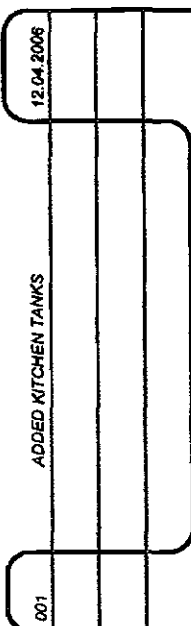
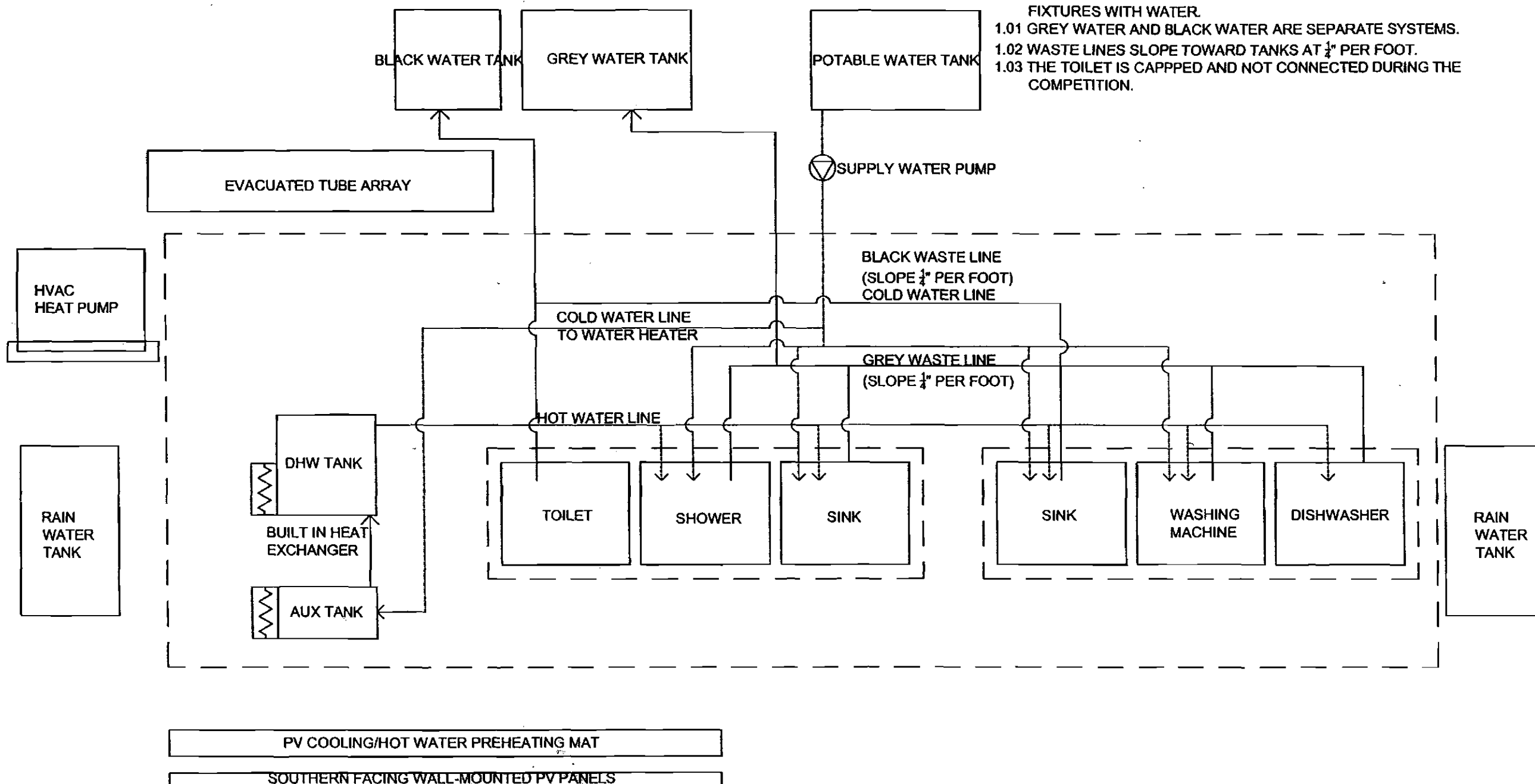
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P.1.4

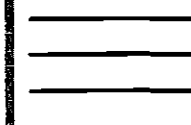
PLUMBING SCHEMATIC

NOTES:

- 1.00 TUBING IS 1/2" PEX. LINES RUN THROUGH A MANIFOLD TO SUPPLY FIXTURES WITH WATER.
- 1.01 GREY WATER AND BLACK WATER ARE SEPARATE SYSTEMS.
- 1.02 WASTE LINES SLOPE TOWARD TANKS AT 1/4" PER FOOT.
- 1.03 THE TOILET IS CAPPED AND NOT CONNECTED DURING THE COMPETITION.



consultants:



prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07

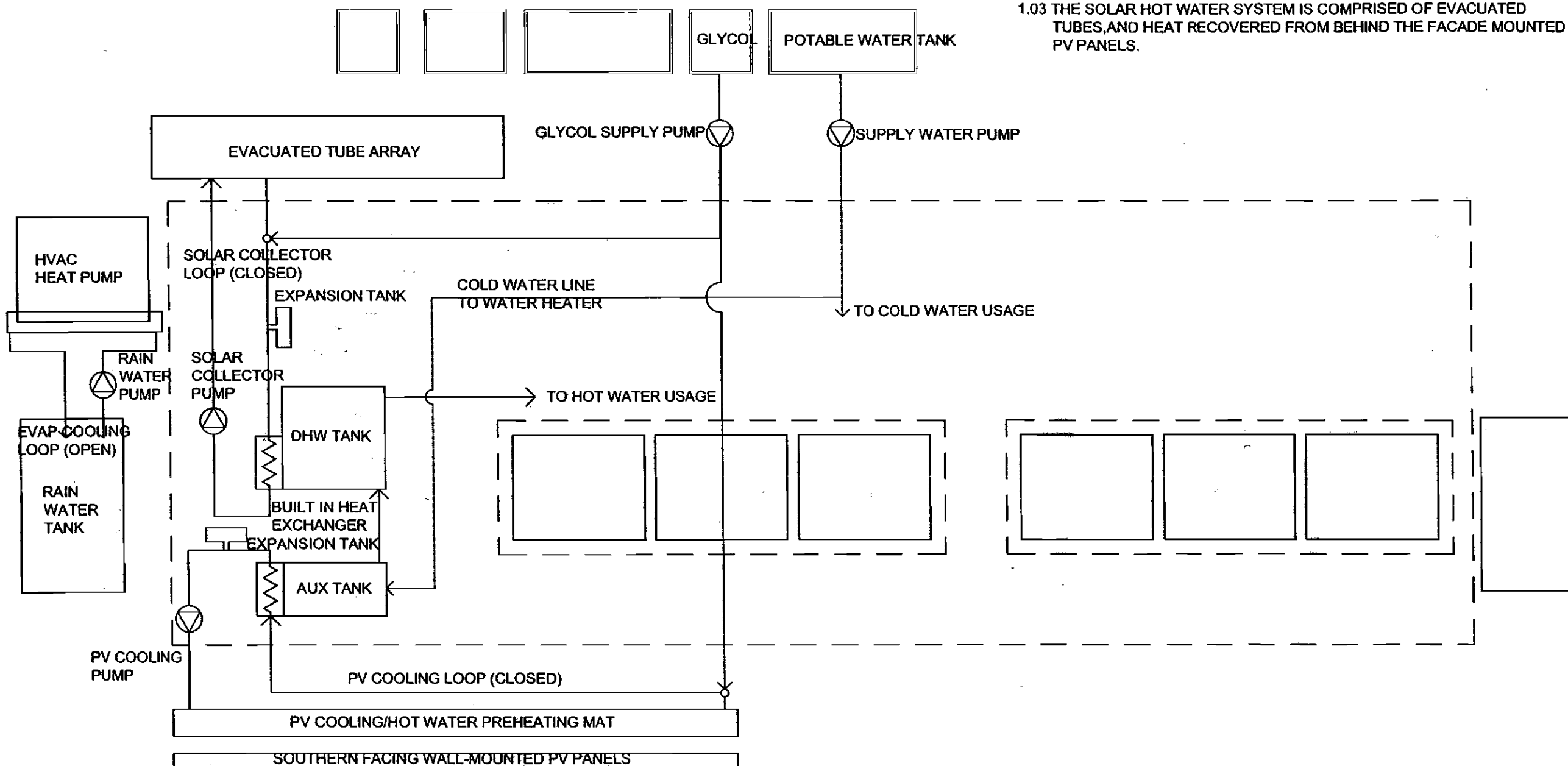


scale: NTS

PLUMBING LINE SCHEMATIC

NOTES:

- 1.00 SOLAR COLLECTOR FLUID IS GLYCOL/WATER MIX.
- 1.01 SOLAR COLLECTOR FLUID IS IN A CLOSED LOOP AND DOES NOT MIX WITH POTABLE WATER.
- 1.03 THE SOLAR HOT WATER SYSTEM IS COMPRISED OF EVACUATED TUBES, AND HEAT RECOVERED FROM BEHIND THE FACADE MOUNTED PV PANELS.



12.04.2006	
KITCHEN TANKS ADDED	
001	

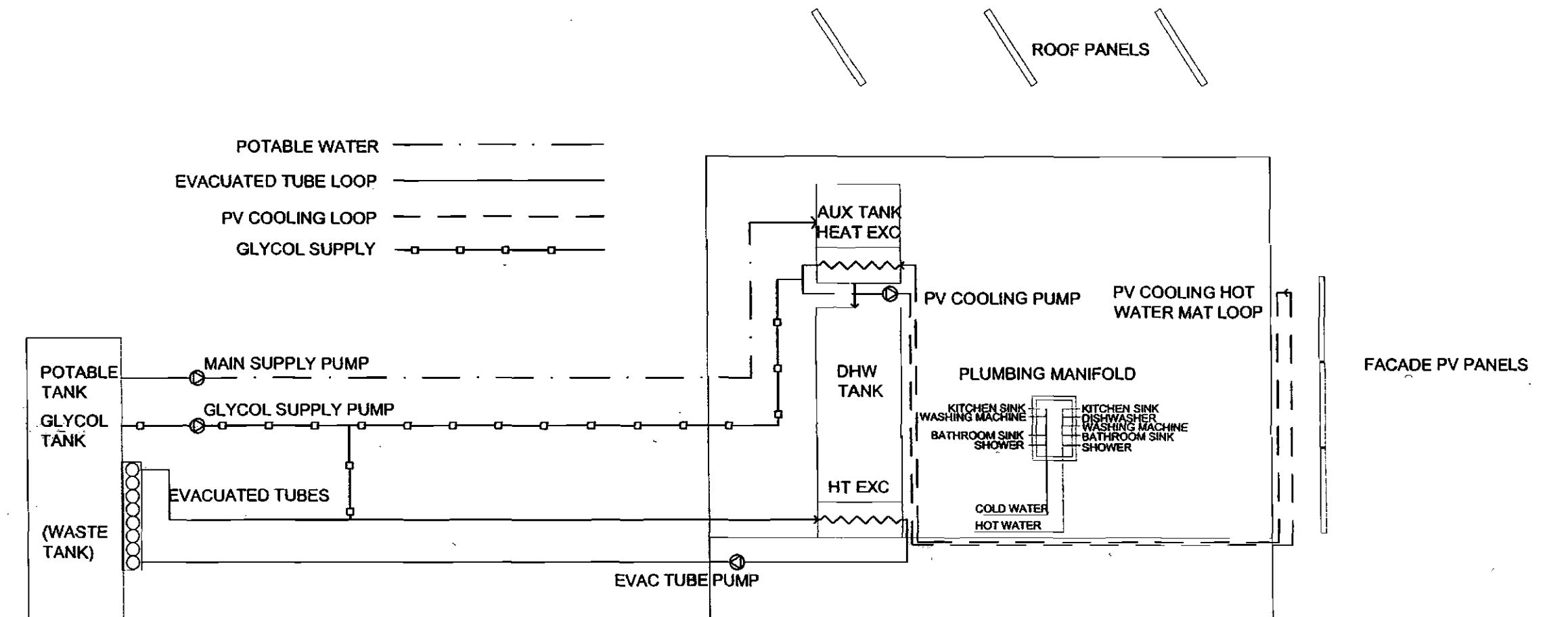
consultants:

prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



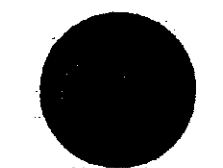
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PLUMBING SCHEMATIC: SOLAR THERMAL

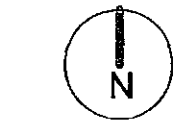


12.04.2008					
REMOVED INLINE HEAT EXCHANGER					
001					

consultants:					



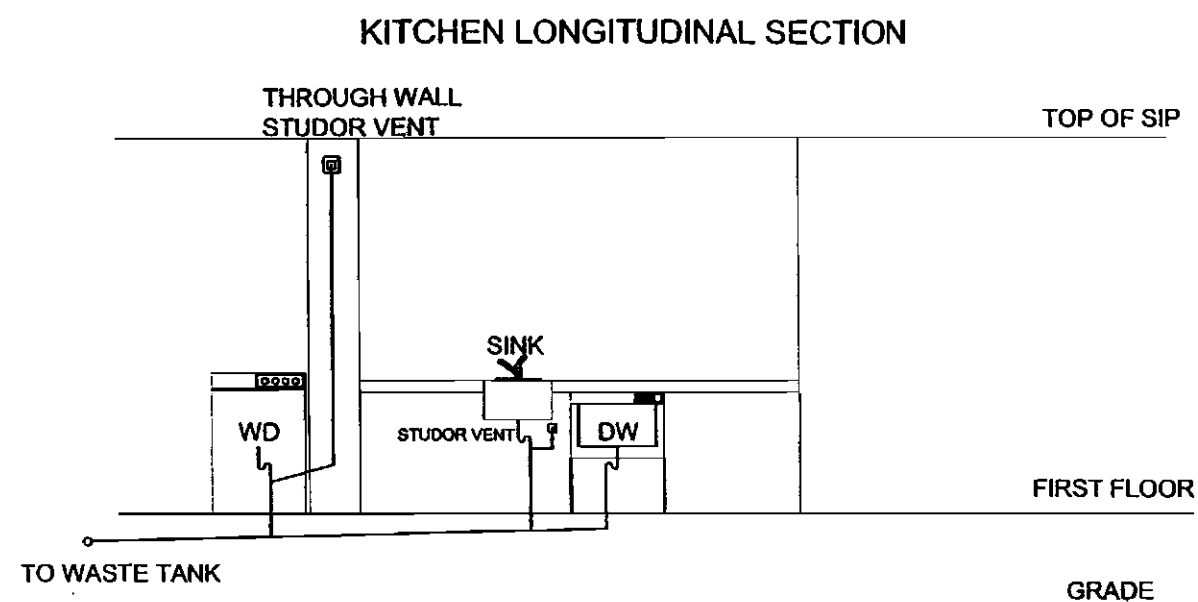
prepared by:
C. JASON MABRY
date drawn: 11.27.06
updated by:
Sang-Hoon Lee
Rannie Daffon
date updated: 3.02.07



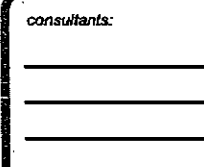
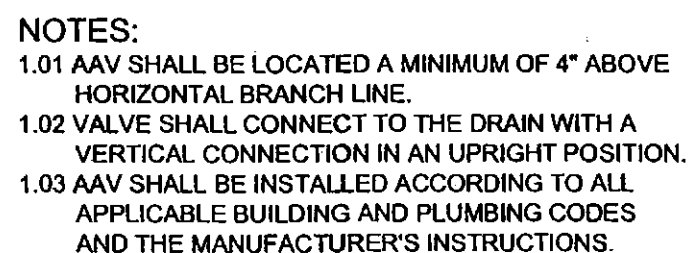
scale: NTS

P.1.7

PLUMBING SCHEMATIC: SOLAR SECTION



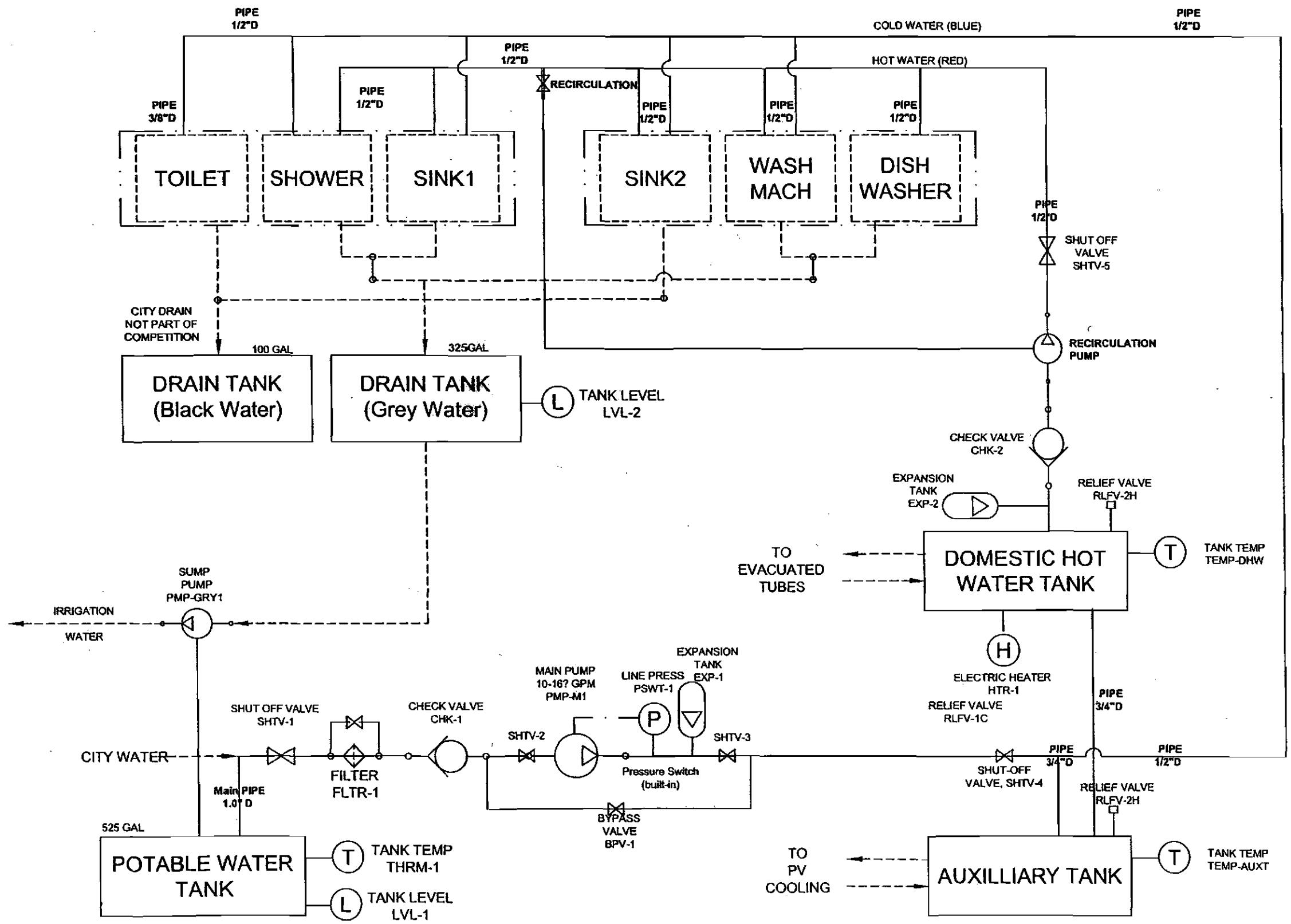
2 PLUMBING RISER DIAGRAM
P.2.0



P.2.0

1 PLUMBING RISER DETAIL
P.20

PLUMBING RISER DIAGRAM AND DETAILS



consultants:

prepared by:
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date drawn:
3.02.07



scale: NTS

P.3.0

PLUMBING SCHEMATIC, SYSTEM DETAIL DIAGRAM

